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CITY COUNCIL
CHICOPEE MA

Minutes from the City Council Special Meeting on Tuesday January 29, 2019 at 6:30 pm in the City Council Chambers are as follows:

Vieau, John L.	Ward 3 Councilor	Present
Laflamme, Frank N.	At-Large Councilor	Present
Roy, Gerard (Jerry) A.	At-Large Councilor	Arrived at 6:33
Tillotson, James K.	At-Large Councilor	Present
Zygarowski, Robert J.	At-Large Councilor	Present
McAuliffe, Joel D.	Ward 1 Councilor	Present
Brooks, Shane D.	Ward 2 Councilor	Present
Balakier, George A.	Ward 4 Councilor	Present
Krampits, Fred T.	Ward 5 Councilor	Present
Dobosz, Derek	Ward 6 Councilor	Present
Courchesne, William C.	Ward 7 Councilor	Present
Labrie, Gary R.	Ward 8 Councilor	Present
Walczak, Stan	Ward 9 Councilor	Present

The purpose of the meeting:

A. EPA/IMP recent information
B. Bluebird Acres
C. Sewer Backup Prevention and Cost Sharing Program
D. Water Meter pilot project and Public Outreach
E. Springfield Interconnection
F. Eastern Etching Tailrace contamination
G. DPW Building for side loaders
H. Reallocation of City Hall space
I. Status of unfilled and Acting department head positions

Councilor Vieau opened the meeting at 6:30. City Clerk Rattell read the call to the meeting. The Meeting was turned over to Elizabette Botelho, Tom Hamel, & Stan Kulig. Elizabette explained that the obligation of consent decree is ¾ done, they are trying to get it modified. There are some areas they can tackle without direct affect to users. Smaller scale area deadline of 2026. Handouts were passed around the handout was followed. Councilor Walczak asked about additional monies from the state. Elizabette and the Mayor explained they are awarded SRF loans, the answer is there is no new money. Bluebird acres- help out this community with their sewer. Met with the Town of Ludlow to set an inter-municipal schedule to meet the DEP deadline. Continuing to move forward. The cost right now is just estimated, 1.8-2.2 million dollars, the owner of the park will be cost sharing on this. The park does get one water/sewer bill. The Council allowed the Mayor to take item H out of order, Lee Pouliot stated the low bid came in at 11.02 million dollars. Hoping to kick off by February. As part of Phase 1, the Human Resources Department has been moved to the first floor. The staff lunch room and & IT Special Projects Manager have been moved. Starting in mid-February, 13 months project time. Elevator will be out from June to September, the long time frame is because custom fabrication is about 44 weeks, design is moving as quickly as we can. Councilor Laflamme asked what are we doing to address people who cannot be mobile within the building? Lee explained that will be part of the plan. Each office will have to help people on the first floor. Public meetings will be moved to the senior center, nothing has been determined yet. HR downstairs is temporary. Phase 2 will be the next scope, Councilor McAuliffe asked if there is any consideration of using electronic kiosks? Lee stated planning is launching e-permitting,

they will have some remote access. Back to regular order-C.-Public outreach summarizes this program, help improve public health, cover installation of valves. Things are done to minimize any sewer backup, viable alternative to the people delayed in the sewer separation. Model has been done in other cities, plumber hired will buy products based on need. The next major project is downtown. D.-Water meter pilot program, 200 meters installed to date, 70 Meters installed in Fairview, have been replacing meters with new meters now. Pilot program will start February, March, should be done by the end of March. Want to complete a full district to begin monthly billing. Residents can opt out if they want. Alerts, low/high levels, leaks, direct communication. There will be a water/sewer policy for people who were overcharged. Councilor Brooks welcomes the new meter idea, will there be the ability to help homeowners? For new meters? Installers are checking pipes as they install. Councilor Courchesne stated there is about $1 million in uncollected water bills. E.- Springfield interconnection. Options we could send our sewer to Springfield. EPA is requiring new levels. We won't meet those permit requirements. Currently our permit is expired. Elizabette explained possible pipe routs, it was on page 5 of the summary. Councilor Vieau stated Springfield has capacity for Chicopee waste also. There is a buy-in entrance fee. Five year review. The 5th graders now go to the treatment plant as a field trip to see the world is an opportunity. F.- FEMA certification, flood wall that runs by Ames Privilege. They are required to have operating gates. If the gates were opened, they would have contamination going into the river. Working with property owners; G.- DPW building and side loaders cost is listed in the handouts. Comparing a municipally built building to a private building is not right. There are too many factors in the municipal building. Cost of Meadow Street vs Baskin Drive. Clarify from Elizabette, Councilor Laflamme requested information about Baskin Drive. Stan stated the trucks are normally filled at the end of the day so it won't be out of their way to fill up at Baskin Drive. Recycling is a one man operation. Just the driver, operate the truck with one man. I-MIS/IT Director, accept Mr. Vernon, will come before the Council. Salary will be $120,000.00 and that is shared between the City and School Department, each paying half. Human Resources Director position is being advertised, she gave a 60 day notice. The Superintendent of water received few applicants. So that position is open and pending. DPW director they have not received qualified applicants so decided to wait through the snow season. Acting Engineer is because the Engineer is filling in the DPW Director job. The acting is not qualified to be an Engineer. Park & Recreation, interviewed a number of people, Didn't get the ideal situation yet. Working in house now. Job is still posted. Some positions are tough to fill with the right licensure. Some positions aren't filled because of the salary.

ATTEST:

KEITH W RATTELL

PROJECT SUMMARIES

City Council Special Meeting

Date: January 29, 2019

EPA Consent Decree 7th Modification & Integrated Management Plan

Local Region 1 of the EPA has agreed:

- The existing Consent Decree deadline of 2026 is not doable for the City.
- Next major CSO project will be a 10 year down town sewer separation project with a deadline of 2035.
- Small scale CSO reduction & sewer separation work are to occur 2019 to 2035.
- Sewer Backup Prevention is to be instituted and extend through 2035.
- City is to commit to do tasks/projects as outlined in Table 8-1. *See poster board*
- Potential Sewer Fee increase over next 6 years about 60 cents total.

- *Look at the 7th Modification:*
  - Tasks "a", Baystate Clarendon pipe work is completed
  - Tasks "b,c,d,e" is total of $7 million 6 year CSO work that also targets public health and sewer backs.
  - Task "f" is the Sewer Backup Prevention Plan City Council recently approved.
  - Tasks "g, h" total of $1.5 million 6 year tasks to clean/clear existing main sewers

Local Region 1 of the EPA has agreed in principle but not in writing to:

- South Fairview Complete sewer separation to occur 2035-2040.
- Remainder of CSO projects are to be completed as existing CSO loans are paid off.
- Work scheduled after 2026 needs final approval from Region 1, Ma. DEP, Department of Justice, and then approvals from EPA Headquarters in Washington.

Bluebird Acres

- 150 existing residential units
- 170 Site capacity
- Scope is limited to Bluebird Acres at this time. Estimate $1.8 to $2.24 Million Green pipeline and section on handout.
- Expansion to other existing homes an additional $750,000 plus
- Additional homes/lots in the future require Ludlow's approval

Tasks	Anticipated	Status
SRF-Project Evaluation Form Due	August 24, 2018,	completed
Request funding for design (Sewer Comm. & City Council)	October 2018	completed
Initiate design	November 1, 2018	started
Mass DEP- AO to Bluebird Acres requires Construction Schedule	November 1, 2018	pending
DEP issues draft Intended Use Plan (funded projects)	December 2018	funded project
Chicopee needs finalized Inter-Municipal Agreement	January 2019	pending
Sewer Commission Authorization	Feb/March 2019	
Chicopee City Council approves Bond Authorization	March 2019	
Final Intended Use Plan-DEP-SRF approval	Jan/Feb 2019	pending
Design 75% Plans and Cost estimates	April 1, 2019	
Submit SRF Loan Application due	May 1, 2019	
SRF Project Approval Certificate (authorization to bid)	May 31, 2019	
Final Plans and cost estimates	June 1, 2019	
Bid Advertisement	July 1, 2019	
Bid Opening	August 1, 2019	
Award contract	Sept 1, 2019	
Construction start	Sept 15, 2019	
Construction completion	November 15, 2020	
Ma DEP Administrative Order (AO) completion date	April 30, 2021	

Sewer Backup Prevention and Cost Sharing Plan

Purpose-
Short term solution to:

- **Reduce Likelihood of Sewer backups**
- **Reduce Cost of Wastewater Treatment City-wide**

  - Removal of ground and storm water from combined sewers reduces the likelihood of backups and lowers the cost of wastewater treatment for all customers.
  - Installation of check valves, pumping systems, and shut-off valves lessen the likelihood of a backup when combined sewers are flowing full for the at- risk customers connected to a combined sewer pipe.

Start-up of the Program

- January 18, 2019 Added Section 230-23 D, to the existing Sewer Use Ordinance.
- Sewer Commission approved Administrative Rules and Policies to implement the program.
- Application, approval and inspection process has been established
- February 2019 Public Outreach starting with the approximate 400 residents who have contacted us and may benefit by this program.
- January 2020 expand outreach City wide.

Components of the Program

- Cost Sharing installation 75% City 25% property owner
- City share not to exceed $2,000/per address
- Removal of roof drains, gutters, sump pumps and yard drains are eligible
- Basement sewer pumps, shut-off valves and check valves are eligible.

Long Term solution-In the Integrated Plan we have committed to tackle this problem in phases;

2016-2025	$4.0 million small sewer separation projects city-wide $3.0 million start sewer separation in South Fairview
2026-2035	$31.1 million complete sewer separation of Downtown Chicopee. $ 4.0 million small sewer separation projects city-wide.
2036-2040	$28.10 million complete the South Fairview sewer separation.
Funding:	2020-2035 $25.8 million of existing debit will be payed-off. 2040-2050 $91.9 million of additional debit will be paid-off

Water Meters

Start-up of the Radio Read Water Meter System:

Pilot meter installation to test system with 200 meters in the Fairview area of the City is occurring now, and is expected to be completed and tested during Jan and February of 2019.

Full scale installation of the anticipated 7 year project to install the meters will start Feb/March of 2019.

Public Information/outreach Feb/March 2019

- Outreach includes information flyer and a door hanger concerning how the water meters will be changed and how the new system will benefit the customer, is being sent to each customer prior to work being done in their area.
- About 200 flyers have been sent out to date
- Additional information is provided by a web site link to the "Water Meter Modernization Program" on the Water Departments web site. We hope to add a link at the main page and the Water Pollution Control web sites as well.
- Meter Installations to date (200):
  - 70 in the pilot area
  - 11 in a pre-pilot area
  - 119 more city-wide to replace broken meters or new installations.

Capabilities of the AMI System:

- Alerts for low, high and/or abnormal water usage provided daily.
- Leak detection and notification to reduce or mitigate financial and property damages.
- Alerts can be communicated to customer daily by City.
- Alerts can be directly communicated to customer if they option-on to AMI system.
- Monthly billing can be instituted as soon as each district installation complete.
- Customer web portal allows customer to see their daily/hourly usage.
- Customer Service Representative (City Staff) can see/walk through water usage with customer while sharing the same informational web screen.
- Customer Service Representatives can provide daily and hourly water usage information to customers with limited or no computer access.
- Reduced customer requested billing abatements due to high or unusual water usage.
- Customer no longer required to fill out water reading/usage cards when not home.
- Eliminates misread meter, and over-estimated readings and associated abatements etc.

Springfield Interconnection:

City would construct a large pump station within the existing WPCF property.

Send dry weather sewage flows and some wet weather flows to the Springfield Water and Sewer Commission's (SWSC) Springfield Regional Wastewater Treatment Facility (SRWTF).

Convert the existing Chicopee treatment plant to a wet-weather only treatment facility.

Initial Study has been completed

Route for pipe line, four routes were studied-
Crossing CT. River at Chicopee plant through West Springfield to Bondi's Island is the preferred least cost Route.

- Cost:
  - $54 Million for the pipe line
  - $10 Million for pump station and modifications at Medina Street WWTP.
  - $?? Million Yet to be determined is the connection fee to use existing SWSC treatment equipment at Bondi's Island
  - $2 million annual treatment costs, at Springfield
  - $0.2 million storm water treatment at Chicopee WWTP.

- Permits required – MassDOT, Army Corps, DEP, Conservation Commissions, Article 97

Existing Chicopee WWTP;

- $10 Million is upgrades to existing equipment over next 10 years.
- $24- $56 Million when Nitrogen limits for the WWTP effluent are required.
- $1.2 Million annual maintenance and chemicals for Nitrogen removal
- $2.4 million annual treatment operation costs.

Unknowns:

Springfield connection costs- expected within 60 days
EPA- Nitrogen requirements.- existing Discharge permit expired August 2017.

Chicopee River Tailrace No. 1 and No. 2 Contamination:

Problem:

- Contaminates in soils in the collector drain and toe drain of the flood control pipe Located parallel to Eastern Etching and Ames Privilege properties and the Flood Wall.

- Contaminates also found in the in the soils in the tailrace pipe that connects the canal to the flood control structures and the Chicopee River.

- Ownership/responsibility of the tailrace(s) is a subject that at this time is being questioned.

- The City needs to operate and maintain the flood control system for the protection of properties at this location.

- Failure to keep FEMA/ USACE certification will greatly increase flood insurance to all parties in the 100 year flood zone along this section of the Chicopee River.

- City desires and is required by USACE to clean toe drain, collector drain and operated the flood gate(s) along this flood wall..

- FC operations of the flood gate may release contaminates to the environment triggering DEP enforcement action.

- May 8, 2018 Tighe & Bond Consultants prepared a preliminary study of potential solutions to the contamination issues. The most cost effective appears to be In-Place Abandonment.

- The abandonment solution is estimated to be in the $100 to $150,000 range plus the costs to clean the toe and collector drains. Plus the costs and liability of drainage issues that may be unknown.

UNITED STATES DISTRICT COURT
DISTRICT OF MASSACHUSETTS

UNITED STATES OF AMERICA, Plaintiff, COMMONWEALTH OF MASSACHUSETTS, Plaintiff-Intervenor, v. CITY OF CHICOPEE, Defendant.	CIVIL ACTION NO. 06-30121-MAP

SEVENTH
MODIFICATION OF SCHEDULE IN CITY OF CHICOPEE'S
FINAL LONG TERM CSO CONTROL PLAN

Pursuant to Paragraph 53(a) of the Consent Decree entered into among the United States of America, the Commonwealth of Massachusetts, and the City of Chicopee (the "Parties"), which was approved by the United States District Court for the District of Massachusetts on September 26, 2006 (Civil Action No. 06-30121-MAP), the schedule of the final Long Term CSO (Combined Sewer Overflow) Control Plan is hereby modified to reschedule specific interim CSO work. The revised schedule for this interim CSO work in the final Long Term CSO Control Plan is as follows:

a. CSO Flow Reduction, Phase A sewer separation for Baystate/Clarendon streets shall be completed by December 31, 2019;

b. CSO Flow Reduction, Sewer Replacement Program Phase B design work shall be initiated by April 1, 2019;

c. CSO Flow Reduction, Sewer Replacement Program Phase B construction work shall be completed by December 31, 2024 ;

d. The design for the Phase 6A West work, which will partially separate CSO 03 (South Fairview), shall be initiated by April 1, 2019;

e. The construction for the Phase 6A West partial CSO separation work will be initiated by June 1, 2022 and shall be completed by December 31, 2024;

f. CSO Flow Reduction, Sewer Backup Prevention Program shall commence by December 31, 2019;

g. CSO Flow Reduction, Syphon Cleaning design shall be initiated by April 1, 2021; and

h. CSO Flow Reduction, Syphon Cleaning shall be completed by December 31, 2025.

The Parties acknowledge that the schedule completion dates in the City of Chicopee's October 2009 Long Term CSO Control Plan for any work that has not yet been completed or is not modified by subsections a, b, c, d, e, f, g, and h, above, will require further extension beyond the existing 2026 completion date through a future modification of the Consent Decree.

The schedule for the CSO Phase work under the City of Chicopee's October 2009 Long Term CSO Control Plan, as modified above, is hereby enforceable under the Consent Decree.

THE UNDERSIGNED PARTY agrees to this seventh modification of the schedule of the Long Term CSO Control Plan in accordance with the Consent Decree in the matter of *United States of America and Commonwealth of Massachusetts v. City of Chicopee.*

For Defendant CITY OF CHICOPEE

Richard J. Kos
Mayor
City of Chicopee
Market Square
Chicopee, MA 01013

12-21-18
Date

THE UNDERSIGNED PARTY agrees to this sixth modification of the schedule of the Long Term CSO Control Plan in accordance with the Consent Decree in the matter of *United States of America and Commonwealth of Massachusetts v. City of Chicopee*.

For Plaintiff UNITED STATES OF AMERICA

ANDREW E. LELLING
United States Attorney
District of Massachusetts

/s/ Susan M. Poswistilo
Susan M. Poswistilo
BBO # 565581
Assistant U.S. Attorney
John J. Moakley U.S. Courthouse
One Courthouse Way, Ste. 9200
Boston MA 02210
(617) 748-3103
susan.poswistilo@usdoj.gov

Date: December 21, 2018

THE UNDERSIGNED PARTY agrees to this sixth modification of the schedule of the Long Term CSO Control Plan in accordance with the Consent Decree in the matter of *United States of America and Commonwealth of Massachusetts v. City of Chicopee.*

For Plaintiff UNITED STATES OF AMERICA

U.S. Environmental Protection Agency
Region 1

12/27/18

Tim Conway, Acting Director
Office of Environmental Stewardship
U.S. Environmental Protection Agency, Region 1
5 Post Office Square
Boston, MA 02109

Date

THE UNDERSIGNED PARTY agrees to this sixth modification of the schedule of the Long Term CSO Control Plan in accordance with the Consent Decree in the matter of *United States of America and Commonwealth of Massachusetts v. City of Chicopee.*

For Plaintiff-Intervenor COMMONWEALTH OF MASSACHUSETTS

By its attorney,

MAURA HEALEY
ATTORNEY GENERAL

12/19/18
Date

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Table 8-1
Sewer, Stormwater, and Flood Projects - *2018 Update*

Years	Proj. No.	Project	Risk Score	Quadrant	Cost ($M)	Finance	Sewer Fee Increase	Retired Bond Value	Retired Bond Year	Estimated Sewer Fee Increase	Debt Service
2016-2020	1	CSO Flow Reduction Program - Phase A - Baystate & Clarendon	9.5	[redacted]	4.00	Bond	$0.12				
	2	Industrial Pump Station Improvements Project	13.3	[redacted]	1.12	Fund Balance					
	3	James Street Pump Station Improvements Project	13.3	[redacted]	0.44	Fund Balance					
	4	Paderewski Pump Station Improvements Project	10.0	[redacted]	0.61	Fund Balance					
	5	Pit #2 Improvements Project	10.0	[redacted]	0.43	Fund Balance					
	6	WWTP Improvements - Correct Code and Safety Issues	14.7	[redacted]	0.36	Fund Balance					
	7	Secondary Clarifier Improvements Project - Phase A	11.5	[redacted]	3.15	Fund Balance					
	8	WWTP - Effluent Generator Installation Project	12.7	[redacted]	0.28	Fund Balance					
	9	Solids Handling Improvements Project	11.5	[redacted]	2.00	New Bond	$0.06				
	10	Primary Clarifier Improvements Project - Phase A	11.5	[redacted]	0.45	Fund Balance					
	11	CSO Flow Reduction Program - Sewer Back-Up Prevention Program	13.3	[redacted]	3.00	New Bond	$0.09				
	12	Pump Station HVAC Equipment Replacement Project - Phase A	4.5	Important	0.11	Fund Balance					
	13	AMI Water Meter Installation & Lead Service Line Replacement - Phase A	7.0	Important	1.95	Fund Balance					
	14	Flood Control Capital Improvements - Phase A	10.0	[redacted]	5.35	New Bond					
				Subtotal	23.25		$0.27	$0		$0.27	$7,776,128
2021-2025	15	CSO Flow Reduction Program - Sewer Replacement Program Phase B	6.3	Critical-Monitoring	3.96	New Bond	$0.12				
	16	Secondary Clarifier Improvements Project - Phase B	6.5	Important	3.15	Fund Balance		$280,143	2020		
	17	Jones Ferry Pump Station Wet Well Improvements Project	9.5	[redacted]	0.51	Fund Balance		$4,773,568	2021		
	18	Pump Station HVAC Equipment Replacement Project - Phase B	3.0	Low Risk	0.11	Fund Balance					
	19	WWTP Routine Improvements - Phase A	10.5	[redacted]	3.43	New Bond	$0.10	$376,069	2025		
	20	CSO Flow Reduction Program - Siphon Cleaning and Grubbing Program	8.5	Important	1.50	New Bond	$0.05	$1,510,128	2025		
	21	Pipe Lining on Fair and Sheridan Streets	4.0	Important	1.50	New Bond	$0.05				
	22	Replace LOX System at WWTP	9.3	Important	0.84	Fund Balance	$0.03				
	23	AMI Water Meter Installation & Lead Service Line Replacement - Phase B	9.0	[redacted]	1.95	Fund Balance					
	24	Flood Control Capital Improvements - Phase B	6.7	Critical-Monitoring	2.00	New Bond	$0.06				
	25	CSO Project - Area 3 - South Fairview - Partial Separation	13.3	[redacted]	3.00	New Bond	$0.09				
	26	Broadcast Center Pump Station Improvements Project	3.3	Low Risk	0.33	New Bond	$0.01				
	27	Exchange Street Pump Station Improvements	6.5	Important	0.31	New Bond	$0.01				
	28	Fuller Road Pump Station Improvements Project	6.5	Important	0.37	New Bond	$0.01				
	29	Rohack Drive Pump Station	8.0	Important	0.30	New Bond	$0.01				
	30	Doverbrook Estates Storm Drain Improvements	5.0	Important	0.44	New Bond	$0.01				
				Subtotal	23.70		$0.54	$6,939,908		$0.33	$8,418,780
2026-2035	26	CSO Flow Reduction Program - Sewer Replacement Program Phase C	3.2	Critical-Monitoring	3.96	New Bond	$0.12	$128,731	2025		
	55	CSO Project - Area 24.4 - Downtown Chicopee - Complete Separation	9.3	Important	10.30	New Bond	$0.31	$3,282,111	2026		
	56	CSO Project - Area 24.5 - Downtown Chicopee - Complete Separation	10.7	Important	16.80	New Bond	$0.50				
	57	CSO Project - Area 27.3 - Downtown Chicopee - Complete Separation	11.3	Important	9.10	New Bond	$0.27				
	28	Flood Control Capital Improvements - Phase C	3.3	Critical-Monitoring	2.00	New Bond		$16,088,784	2029		
	29	Jones Ferry Pump Station Electrical/HVAC Improvements Project	8.0	Important	0.63	New Bond	$0.02	$2,663,686	2029		
	30	WWTP Routine Improvements - Phase B	7.0	Critical-Monitoring	2.99	New Bond	$0.09				
	35	Greenpoint Circle Pump Station Improvements Project	1.7	Low Risk	0.36	New Bond	$0.01	$3,083,127	2035		
	36	Miscellaneous Pump Station Improvements Project	6.5	Important	0.31	New Bond	$0.01	$588,800	2035		
	37	Leslie Street Pump Station Improvements	6.5	Important	0.13	New Bond	$0.00				
	38	Pit #1 Improvements Project	6.5	Important	0.43	New Bond	$0.01				
	39	Riverview Place Pump Station Project	1.7	Low Risk	0.57	New Bond	$0.02				
	41	Call Street Pump Station Improvements	8.0	Important	0.17	New Bond	$0.01				
	42	Pump Station HVAC Equipment Replacement Project - Phase C	1.5	Low Risk	0.23	New Bond	$0.01				
	43	Install Sewage Grinders at WWTP	2.0	Low Risk	1.02	New Bond	$0.03				
	45	Prospect Street Storm Drain Improvements	2.7	Low Risk	0.74	New Bond	$0.02				
	46	Burnett Road Storm Drain Improvements	2.7	Low Risk	0.10	New Bond	$0.00				
	47	Pendleton Avenue Outfall Improvements	0.7	Important	0.08	New Bond	$0.00				
	48	Horseshoe Drive Gorge Outfall Improvements	5.0	Important	0.34	New Bond	$0.01				
	49	Fletcher Circle - South Outfall Improvements	2.7	Low Risk	0.09	New Bond	$0.00				
	50	Old Fuller Road Outfall Improvements	3.3	Low Risk	0.18	New Bond	$0.01				
	51	Dale Street Swale Outfall Improvements	3.3	Low Risk	0.02	New Bond	$0.00				
	52	Abbey Memorial Dr. - Abbey Brook Outfall Improvements	1.3	Low Risk	0.04	New Bond	$0.00				
	53	Robinridge Outfall Improvements	1.7	Low Risk	0.03	New Bond	$0.00				
	54	WWTP Routine Improvements - Phase C	3.5	Critical-Monitoring	1.95	New Bond	$0.06				
				Subtotal	52.56		$1.52	$25,835,239		$0.74	$10,401,993
2036 - 2040	27	CSO Project - Area 3 - South Fairview - Complete Separation	13.3	[redacted]	28.30	New Bond	$0.85	$1,000,000	2038		
				Subtotal	28.30		$0.85	$1,000,000		$0.82	$10,773,975
2041-2050	31	CSO Flow Reduction Program - Sewer Replacement Program Phase D	3.2	Critical-Monitoring	25.00	New Bond	$0.75				
	58	CSO Project - Area 4.1 - Yelle Street Area - Detention and Partial Separation (3 Phases)	10.0	Important	16.40	New Bond	$0.49				
	59	CSO Project - Area 4.3 - Jacob Street Area - Do Nothing	2.2	Low Risk	0.10	New Bond	$0.00	$15,986,627	2041		
	60	CSO Project - Area 7.1 - McKinstry Avenue/Lorraine Street Area - Do Nothing	2.3	Low Risk	0.10	New Bond	$0.00	$2,320,400	2043		
	61	CSO Project - Area 7.2 - Jones Ferry P.S./Riverdale Road Area - Direct flow to Interceptor	10.0	Important	0.10	New Bond	$0.00	$1,680,000	2043		
	62	CSO Project - Area 34.1 - Montgomery Street / Columbia Street Area - Partial Separation	7.5	Important	5.30	New Bond	$0.16	$6,890,247	2043		
	63	CSO Project - Area 27.1 - Hefey Street Area - Partial Separation	7.5	Important	14.60	New Bond	$0.44	$773,600	2043		
	64	CSO Project - Area 5 - Leslie P.S. / Silvin Street, Mt. Vernon Street Area - Storage	8.0	Important	2.60	New Bond	$0.08	$21,808,400	2043		
	65	CSO Project - Area 37 - East Main Street Area - Partial Separation	10.7	Important	0.80	New Bond	$0.02	$15,478,242	2045		
	66	CSO Project - Area 32.4 - Linden Street & Maple Street Area - Complete Separation	8.0	Important	0.90	New Bond	$0.02	$17,855,607	2047		
	67	CSO Project - Area 9 - Paderewski P.S. / Old Field Road Area - Storage	10.0	Important	2.60	New Bond	$0.08	$9,103,151	2048		
	68	CSO Project - Area 32.3 - Fuller Street & East Street Area - Complete Separation	10.7	Important	1.50	New Bond	$0.05	$12,500	2049		
	69	CSO Project - Area 26 - Bell Street & Front Street Area - Complete Separation	4.7	Low Risk	1.50	New Bond	$0.05				
	70	CSO Project - Area 27.2 - Riverview Terrace Area - Green Infrastructure	2.3	Low Risk	0.10	New Bond	$0.00				
	71	CSO Project - Area 32.5 - Belcher Street / Walnut Street Area - Complete Separation	4.7	Low Risk	1.20	New Bond	$0.04				
	72	CSO Project - Area 32.6 - Main Street - Complete Separation	7.0	Important	2.10	New Bond	$0.06				
	73	CSO Project - Area 32.7 - Main Street - Complete Separation	9.3	Important	2.40	New Bond	$0.07				
				Subtotal	77.20		$2.32	$91,908,774		-$0.44	$7,306,000
2051 - 2080	74	CSO Project - Area 8 - Lower Granby Road Area - Abandon CSO	9.3	Important	0.10	New Bond	$0.00				
	75	Replace Aeration System at WWTP	2.3	Low Risk	4.90	New Bond	$0.15				
	76	Nitrogen Optimization Project	1.0	Low Risk	55.00	New Bond	$1.65				
				Subtotal	60.00		$1.80	$0		$1.80	
Deferred Indefinitely	77	Routine Sewer Replacement Program - Phase A	5.0	Important	13.30	New Bond	$0.40				
	78	Routine Sewer Replacement Program - Phase B	3.3	Low Risk	13.34	New Bond	$0.40				
	79	Routine Sewer Replacement Program - Phase C	1.7	Low Risk	5.64	New Bond	$0.17				
	80	Burnett Road Sewer Extension	1.0	Low Risk	17.80	New Bond	$0.53				
	81	Routine Storm Drain Replacement Program - Phase A	6.5	Important	9.58	New Bond	$0.29				
	82	Routine Storm Drain Replacement Program - Phase B	4.3	Low Risk	11.08	New Bond	$0.33				
	83	Routine Storm Drain Replacement Program - Phase C	2.3	Low Risk	22.16	New Bond	$0.66				
				Subtotal	92.90		$2.79	$0		$2.79	
				Grand Total	357.91						

Note: Schedule is Adaptable and Subject to Change.

1 CSO Abatement costs based on selected alternative. Non-SRF funded water main replacements not included.

2 CSO Related Water Main Replacement represents an estimate of additional water main work added to the contract by the Chicopee Water Department, funded through non-SRF funding sources. Placeholder is

3 Sewer Replacement Program represents sewer replacements specifically to reduce back-up issues and poor condition pipe. Routine Sewer Replacement Program represents a projection for replacement of aging Routine Storm Drain Replacement Program represents a projection of aging infrastructure in addition to storm drains constructed as part of CSO Projects.

4 Flood Control Improvements Phase A includes work recommended in 2016 periodic inspection and 500-Year Compliance and Pump Station Hardening Projects. Flood Control Improvements Phase B and C are a budgetary projection of anticipated work required to maintain flood control systems.

5 Estimated Sewer Fee increases are based on SRF funding (2.5% interest) with a 30-year term.

6 No capital improvements are projected after 2035. Additional rate increases anticipated associated with capital improvements in 20+ years.

Table 8-2
Water Projects - *2018 Update*

Years	Project No.	Project	Risk Score	Quadrant	Cost ($M)
2016-2020	1	Water - Facility Security Improvements	12.0	[illegible]	0.32
	2	Redundant Water Transmission Main Project - Contract No. 2 - WTP Chlorine System	12.0	[illegible]	0.76
	3	Water - Correct Code and Safety Issues	12.0	[illegible]	0.04
	4	Water - Soda ash and Bicarbonate System Improvements	7.7	Critical-Monitoring	0.18
	5	Water - Instrumentation & Controls Improvements to WTP	3.8	Critical-Monitoring	0.01
	6	Water - Storage Tank Improvements	12.0	[illegible]	0.16
	7	Water - Repaint Storage Tank	3.8	Critical-Monitoring	1.00
	8	Redundant Water Transmission Main Project - Contract No. 1 - Transmission Main	16.0	[illegible]	12.20
	9	Water Main Replacement - South Street (Sewer Replacement Project Baystate and Clarendon)	10.0	[illegible]	1.00
	10	CSO Phase 5A, Area 24.2, 24.3, 32.2 Water Main Replacement	7.0	Important	2.90
	11	Water - Electrical & HVAC Improvements to Chlorination Building	4.0	Important	0.04
	12	Water – WTP and Tank Site Improvements	2.3	Low Risk	0.18
	13	Water – Replace Phosphate Day Tank	7.7	Critical-Monitoring	0.03
	14	AMI Water Meter Installation and Lead Service Replacements - Phase A	6.0	Important	1.55
	15	Water Main Replacement - Old Fuller Road 20" Replacement	7.0	Important	4.00
2021-2025	16	Water Main Replacement - Grattan St - B (Not in CSO Area)	2.3	Low Risk	0.84
	17	Water Main Replacement - Chicopee St - A (CSO Areas 5 - Storage and 4.1 - Separation and Detention)	7.0	Important	0.94
	18	Water Main Replacement - Springfield Street (CSO Area 24.5 and 27.3 - Complete Separation)	7.0	Important	1.65
	19	AMI Water Meter Installation and Lead Service Replacements - Phase B	9.0	[illegible]	1.55
	20	Water Main Replacement - East Main St (CSO Area 37 – Partial Separation)	4.7	Low Risk	1.30
2026- 2030	21	Water – Structural Improvements to WTP	3.5	Important	0.22
	22	CSO Phase 5, Area 24.4, Additional Water Main Replacement	7.0	Important	1.29
	23	CSO Phase 5, Area 24.5, Additional Water Main Replacement	7.0	Important	0.49
	24	Water Main Replacement - Gaylord Street 4" & 6" CI Replacement (CSO Area 24.5 - Complete Separation)	6.5	Important	0.20
	25	Water Main Replacement - Austin Street 4" CI Replacement (CSO Area 27.3 - Complete Separation)	6.5	Important	0.22
	26	Water Main Replacement - Auburn Street 4" CI Replacement (CSO Area 24.5 - Complete Separation)	6.5	Important	0.18
	27	Water Main Replacement - Gilmore Street 4" & 6" CI Replacement (CSO Area 24.4 - Complete Separation)	6.5	Important	0.14
	28	Water Main Replacement - Cooney Place 4" CI Replacement (CSO Area 24.4 - Complete Separation)	6.5	Important	0.11
	29	Water Main Replacement - Sanford Street 4" CI Replacement (CSO Area 24.2 - Under Construction)	6.5	Important	0.18
	30	Water Main Replacement - Chicopee St - B (CSO Area 9 - Storage)	4.7	Low Risk	1.39
	31	Water Main Replacement - McKinstry Ave (CSO Area 8 - Abaondon CSO)	4.7	Low Risk	1.33
	32	Water Main Replacement - Brightwood Street 4" CI Replacement (CSO Area 34.1, Partial Separation)	6.5	Important	0.08
	33	Water Main Replacement - Garrity Street 4" CI Replacement (CSO Area 34.1, Partial Separation)	6.5	Important	0.14
	34	Water Main Replacement - Hawthorne Street 4" CI Replacement (CSO Area 34.1, Partial Separation)	6.5	Important	0.06
2031-2035	35	Water Main Replacement - Chicopee River Crossing (Not in CSO Area)	2.3	Low Risk	0.99
	36	CSO Phase 5, Area 27.3, Additional Water Main Replacement	7.0	Important	1.01
	37	Water Main Replacement - Paderewski St and Granger St (CSO Area 9 - Storage)	4.7	Low Risk	0.58
	38	Water Main Replacement - Front St (Not in CSO Area)	2.3	Low Risk	1.16
	39	Water Main Replacement - Montgomery St - A (CSO Area 4 - Separation and Detention)	4.7	Low Risk	1.00
	40	Water Main Replacement - Edward Street 4" CI Replacement (CSO Area 8 - Abandon CSO)	4.3	Low Risk	0.37
2036-2050	41	Water Main Replacement - Walton Street 4" CI Replacement (CSO Area 27.3 - Complete Separation)	6.5	Important	0.13
	42	CSO Area 3 Additional Water Main Replacement	7.0	Important	0.45
	43	Water - Abandon Booster Pump Station	1.0	Low Risk	0.06
	44	Water Main Replacement - Sheridan St (Not in CSO Area)	2.3	Low Risk	1.77
	45	Water Main Replacement - Grattan St - B (Not in CSO Area)	2.3	Low Risk	0.40
	46	Water Main Replacement - Montgomery St - B (Not in CSO Area)	2.3	Low Risk	0.37
	47	Water Main Replacement - Shawinigan Drive (Not in CSO Area)	2.3	Low Risk	2.54
	48	Water Main Replacement - Haynes Circle (Not in CSO Area)	2.3	Low Risk	0.18
	49	Water Main Replacement - Wheatland Ave (Not in CSO Area)	2.3	Low Risk	0.73
	50	Water Main Replacement - Montgomery St 6" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.35
	51	Water Main Replacement - Linda Ave 6" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.10
	52	Water Main Replacement - Armanella St 6" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.16
	53	Water Main Replacement - Helen St 6" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.12
	54	Water Main Replacement - Sterling St 6" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.07
	55	Water Main Replacement - Parshley 4" CI Replacement (Not in CSO Area)	2.2	Low Risk	0.06
	56	Water Main Replacement - Replace all remaining 4-inch mains	2.2	Low Risk	1.65
	57	Water Main Replacement - Replace 1.5 to 2-inch mains	2.2	Low Risk	0.93
	58	Water Main Replacement - Routine water service replacements	2.0	Low Risk	3.00
	59	CSO Area 4.1 Additional Water Main Replacement	4.7	Low Risk	0.52
	60	CSO Area 34.1 Additional Water Main Replacement	7.0	Important	0.52
	61	CSO Area 27.1 Additional Water Main Replacement	7.0	Important	2.19
	62	CSO Area 37 Additional Water Main Replacement	4.7	Low Risk	0.12
	63	CSO Area 32.4 Additional Water Main Replacement	4.7	Low Risk	0.12
	64	CSO Area 32.3 Additional Water Main Replacement	4.7	Low Risk	0.23
	65	CSO Area 26 Additional Water Main Replacement	4.7	Low Risk	0.23
	66	CSO Area 32.5 Additional Water Main Replacement	4.7	Low Risk	0.18
	67	CSO Area 32.6 Additional Water Main Replacement	4.7	Low Risk	0.32
	68	CSO Area 32.7 Additional Water Main Replacement	4.7	Low Risk	0.36
				TOTAL	59.66

Note: Schedule is Adaptable and Subject to Change

1 CSO Related Water Main Replacement represents an estimate of additional water main work added to the contract by the Chicopee Water Department, funded through non-SRF funding sources. Placeholder is 15% of CSO Project cost, based on observed trends in previous CSO projects. Phase 5 costs based on current design cost estimates.

Figure 4: Option 2 – Force Main Only

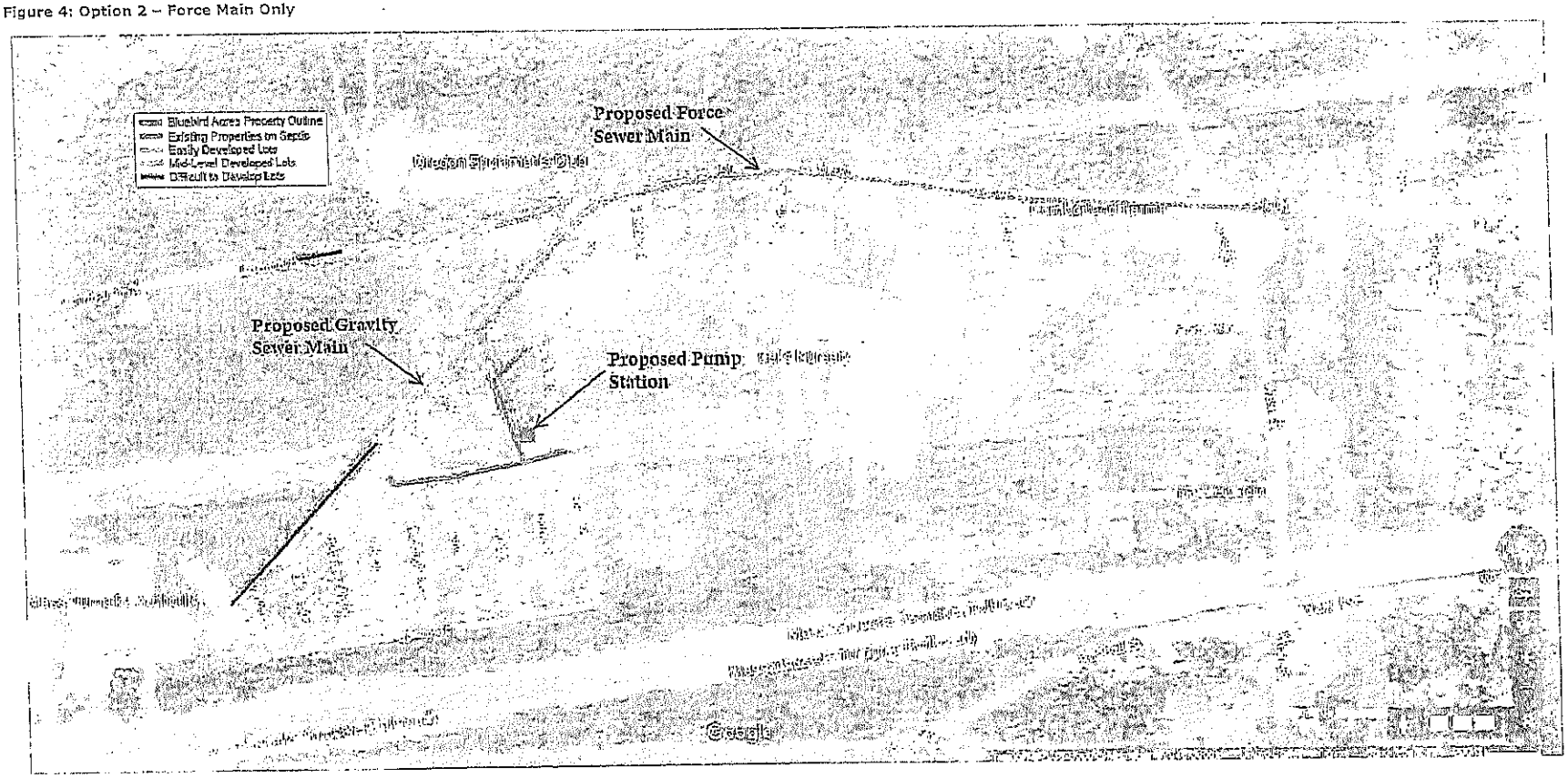
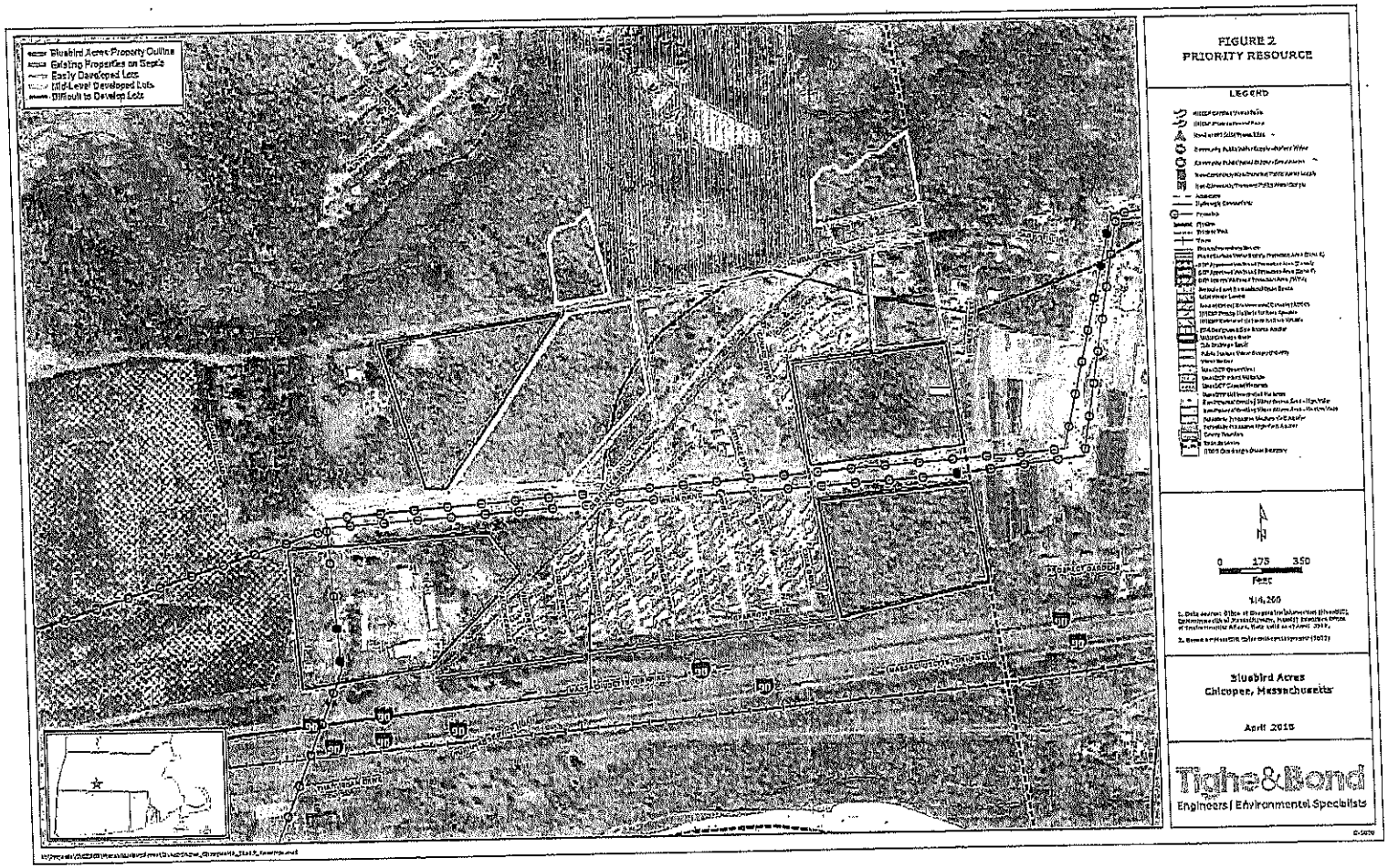


Figure 1: Service Area



How do I Apply?

1. Call the Water Pollution Control Facility (WPCF) to discuss your property and set up an inspection to determine your eligibility.
2. If you are deemed eligible by the City, submit the Sewer Backup Prevention & Cost Sharing application packet to the WPCF. Copies of the application are available at the WPCF.
3. Once the work is completed, call the WPCF to schedule an inspection.
4. After the City's inspection, submit a Reimbursement Form to the WPCF.

Questions?

Contact Quinn Lonczak at:

Phone: (413)-594-3585

Email: QLonczak@chicopeema.gov

Water Pollution Control Facility

80 Medina St.

Water Pollution Control Facility

80 Medina Street, Chicopee

413-594-3585

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SEWER BACKUP PREVENTION & COST SHARING PROGRAM

Sewer Backup Prevention & Cost Sharing Program

Do you experience sewage backups during rain events?

If yes, the City of Chicopee has developed a program to partially reimburse property owners to reduce the risk of sanitary sewer backups during rain events.

How can I reduce the risk of a sewer backup into my basement?

Installing backflow prevention devices (a check valve and shutoff valve) on the sewer laterals of a property, and/or raising the basement sewer laterals overhead, can reduce the risk of backups from the sewer system. The City will reimburse a portion of eligible expenses, to make modifications to reduce backups. Costs associated with work done to separate storm drain leaders, sump pumps, and yard drains from the sewer system also qualifies for reimbursement if backflow prevention modifications are completed. **You MUST apply and be approved prior to completing the work to qualify for reimbursement.**

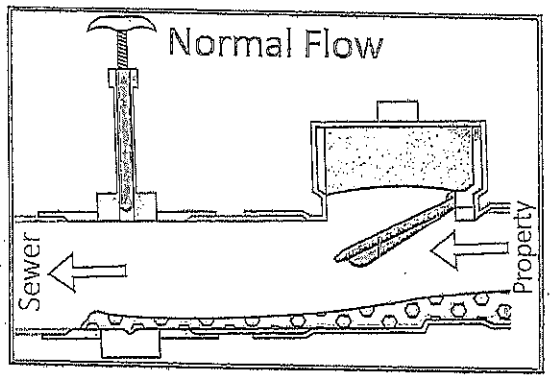
Does this apply to me?

You may be eligible if your property is connected to the City's combined sewer system. Please call the name and number on this pamphlet to find out more.

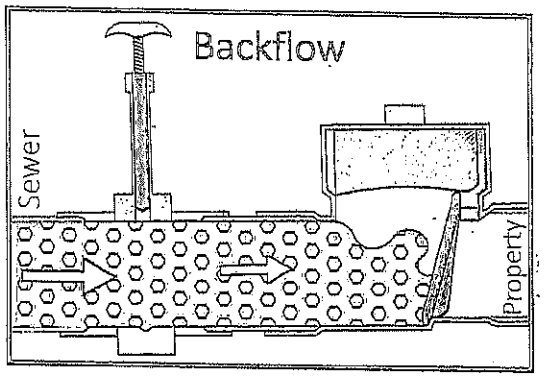
What is a Check Valve?

A check valve, also commonly known as a "flapper valve", is a one-way valve that is installed on a sewer service lateral.

Under normal conditions, the flap remains open to allow sewage to flow from your property to the sewer system.



During a backup from heavy rains in the sewer system, the flap closes to prevent flow from entering your plumbing.



What is eligible for Reimbursement

75% of eligible expenses, up to $2,000, are eligible for reimbursement. Eligible and ineligible costs are as follows:

Costs eligible for reimbursement:

- ☑ Locating, excavating, and exposing the house sewer service lateral
- ☑ Installing a compliant check valve(s) and shutoff valves
- ☑ Concrete floor trenching and repairs
- ☑ Installing an overhead sewer system with ejector pump
- ☑ Separating roof drains, yard drains, perimeter drains and or sump pumps
- ☑ Grass seeding and or concrete repair to disrupted areas from pipe work
- ☑ Permit fees

Costs ineligible for reimbursement:

- ☒ Materials that do not meet City Ordinances and Codes, and State Plumbing Codes
- ☒ Property work not related to sewer back-up protection
- ☒ Pipework unrelated to the backflow prevention system

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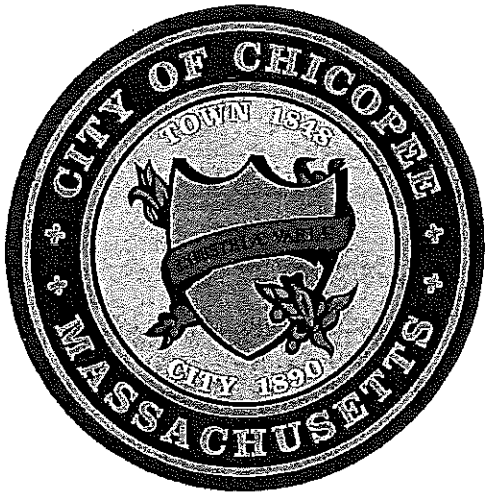

SEWER BACKUP PREVENTION & COST SHARING PROGRAM

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SEWER BACKUP PREVENTION & COST SHARING PROGRAM OVERVIEW

WHAT IS IT?

The Sewer Backup Prevention and Cost Sharing Program provides reimbursements to eligible residential, commercial and business property owners for work done to reduce the risk of sanitary sewer backups into their homes and businesses.

The reimbursement program is effective starting with the adoption of an enabling Ordinance and funding by the City Council and will be awarded on a first-come first approved basis until available funds have been depleted.

Property owners with service connections to the City's sewer system who are at a moderate risk of experiencing backups can receive a reimbursement of 75% of eligible expenses, up to $2,000, for piping modifications to prevent sewage backups from the City's sewer system during rain events.* Eligibility is determined by the City and the work must be approved by the City before work is started. Reimbursements will be limited to one per address.

*Additional work done to separate storm drain leaders, roof leaders and gutters, sump pumps, and yard drains from the sewer also qualifies for reimbursement and may be required if backflow prevention modifications are completed.

WHAT IS IT NOT?

This program is **Not** intended to address backups in homes caused by the following:

- ☒ Overland surface flooding not emanating from the City's sewer system
- ☒ Blockages in private service laterals or City sewer mainlines (root growth, for example)

AM I ELIGIBLE?

If you are a property owner of Chicopee, and your property is connected to the City's combined sewer system, you may be eligible.

If you believe you are eligible and are interested in participating in the program, please call Water Pollution Control at (413)-594-3585 to schedule an inspection with the City to confirm your eligibility.

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How To Apply

1. Contact the Wastewater Pollution Control Facility (WPCF) at (413)-594-3585 or email qlonczak@chicopeema.gov to schedule an inspection to determine if your property is eligible.

2. After being deemed eligible, you should make your best efforts to obtain three quotes from licensed plumbers or contractors (with written proposals detailing the scope of work).

3. Submit the following documents to the WPCF at 80 Medina Street:
   - Forms A and B (attached)
   - Quotes for the work (highlight the selected quote)

4. Quotes and written proposals will be reviewed and will either be "approved", "approved as noted", "returned for revisions", or "rejected". If and when the City approves the application, work can be started.

5. Plumbing work must comply with MA Uniform State Plumbing Code and City Ordinances and Codes. A plumbing permit must also be obtained for any plumbing work to be completed, and must be obtained separately through the Building Department.

6. Upon completion of the work, contact the WPCF at (413)-594-3585 to schedule an inspection.

7. Once the completed work has been inspected and approved, submit the following documents to the WPCF:
   - Copy of itemized invoice from the contractor who did the work.
   - The Request for Reimbursement - -Form C (attached) (attached)

8. The property owner will receive the City's reimbursement check by mail approximately 30 days following the Request for Reimbursement- Form C is submitted.

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REIMBURSABLE COSTS

ELIGIBLE COSTS

The following costs are eligible for reimbursement:

For outdoor work:

- Locating, excavating, and exposing the house sewer lateral sewer.
- Installing a compliant check valve and shutoff valve on the existing sewer lateral
- Cutting and capping roof leaders that are tied into the sewer system (if applicable)
- Pipe work associated with separating sump pumps, downspouts, exterior perimeter drains (drain tiles), and yard drains from the sewer system (if applicable)
- Grass seeding to restore disrupted grass/lawns
- Permit fees

For indoor work:

- Concrete floor trenching and repairs
- Work associated with separating sump pump from the sewer (if applicable)
- Installing a compliant check valve(s) and a shut-off valve combination
- Installing a pump and making associated piping modifications to raise elevation of sewer lateral
- Plumbing permit fees

NON-ELIGIBLE COSTS

The following costs will **Not** be eligible for reimbursement:

- Use of materials that do not meet the requirements of the City Ordinances and Codes, and MA Uniform State Plumbing Code (248 CMR 10)
- Ancillary property owner improvements not necessary to provide sewer back-up protection
- Repairing sections of the sewer lateral unrelated to the installation of the backflow prevention system.

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ADDITIONAL INFORMATION

Piping modifications can be made to reduce backups into a property. Installing check valves, pump system, and/or raising the elevation of the sewer lateral in the basement to bring it overhead can reduce backups caused by heavy rain events into a combined sewer system.

WHAT IS A CHECK VALVE/ SHUT OFF VALVE INSTALLATION AND HOW DOES IT WORK?

A check valve is typically a "flapper" valve that is installed on the lateral sewer line that connects your house to the City's sewer line. In some cases, a smaller check valve can be installed on a single plumbing fixture (i.e. a set tub) in lieu of the larger flapper valve.

When the sewer line in the street is flowing under normal conditions, the flapper valve remains open in the direction of flow. In the event of heavy rain causing a backup into your service pipe lateral, the flapper valve closes and deters sewage from the mainline from back flowing into the /building. During a heavy rain event, the flapper valve also blocks sanitary flow from discharging from your /building until the surcharged conditions subsides. Care should be taken to reduce water usage during heavy rains to prevent a backup into your /building from your own a sanitary sewer flow.

Check valves typically need to be maintained and inspected periodically to insure proper operation. **It is the property owner's responsibility to maintain the check valve.**

A manually operated shutoff valve must be installed along with the check valve to provide a way to manually stop the flow if needed.

WHAT IS AN OVERHEAD SEWER SYSTEM?

Sewer backups typically occur when the water level in the sewer system becomes higher than the sewer piping in your basement during a heavy rain. If your sewer piping is located below the floor of your basement, an option for reducing backups from the City's sewer system is to raise the sewer piping overhead. This option may require you to install an ejector pump to pump sewage from basement fixtures up to the overhead piping.

WHY IS IT IMPORTANT TO REDUCE INFLOW AND INFILTRATION?

The reduction of wet weather and groundwater flows into the combined sewer system reduces the volume of flow in the City's combined sewers and ultimately into the City's wastewater treatment plant. This reduction in volume reduces the costs associated with treating sewage, and reduces the potential for overloading and surcharging the combined sewer system that may lead to sewage backups.

Sump pumps, roof leaders, yard drains and exterior perimeter drains are significant sources of inflow and infiltration. Disconnecting of these sources, is reimbursable through this program and may be required to prevent interior flooding.

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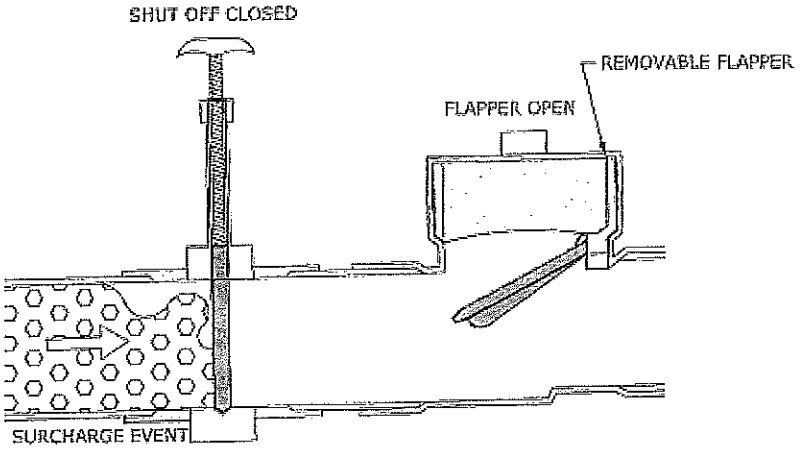
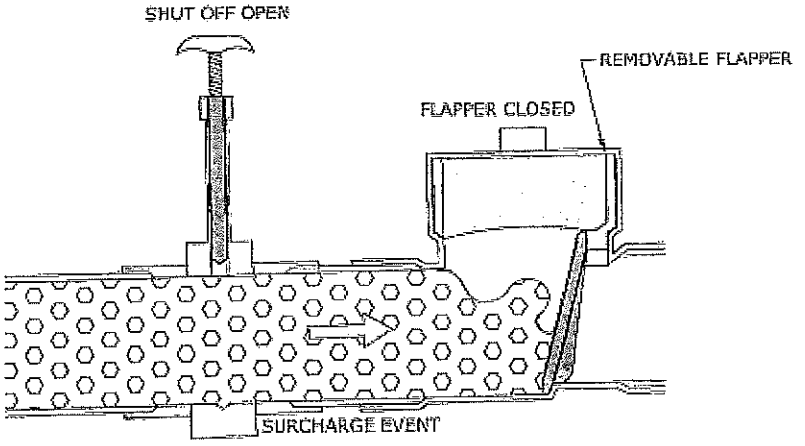
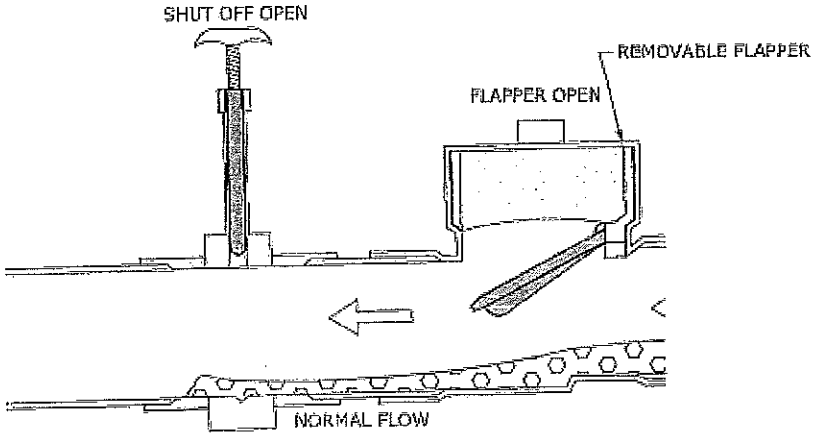
CHECK VALVE & SHUTOFF VALVE







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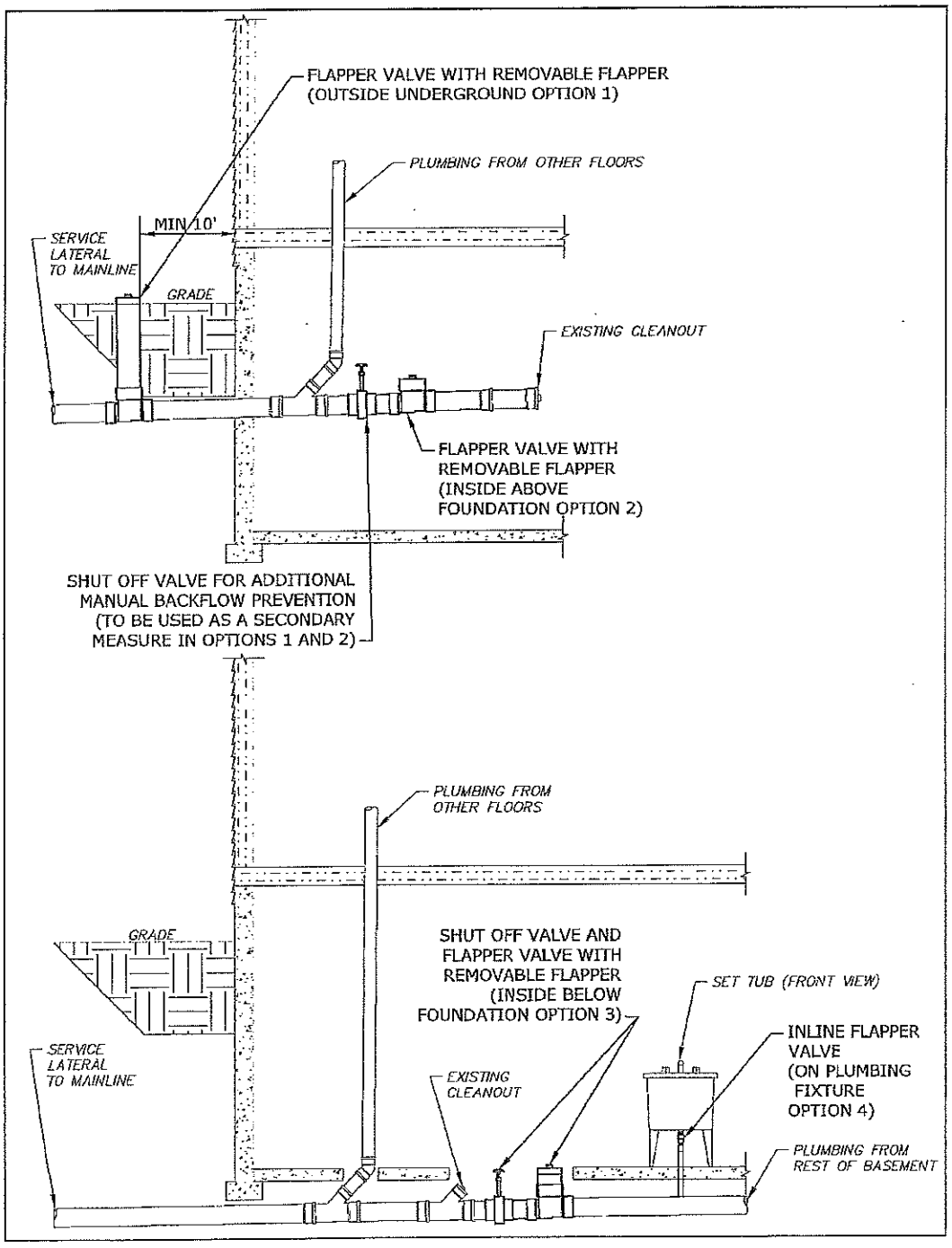
EXAMPLE VALVE INSTALLATIONS

Below are four common types of backwater check valve installations (outside underground, inside above foundation, inside below foundation, and in-line on a plumbing fixture).



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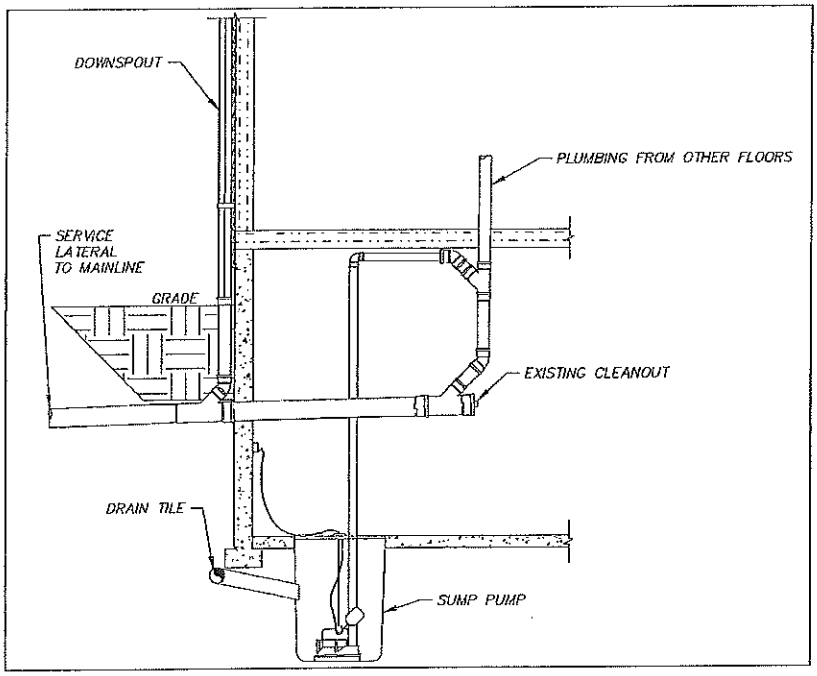
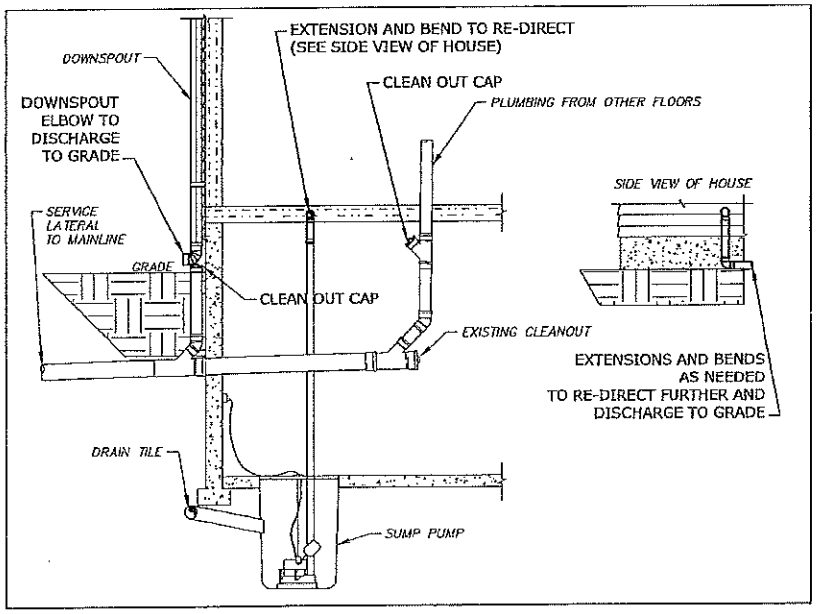
EXAMPLE PLUMBING MODIFICATIONS

Plumbing modifications may include disconnecting downspouts and sump pumps that are connected to the sewer service, and/or raising the elevation of basement plumbing.

Existing Plumbing



Sump and Downspout Plumbing Modifications



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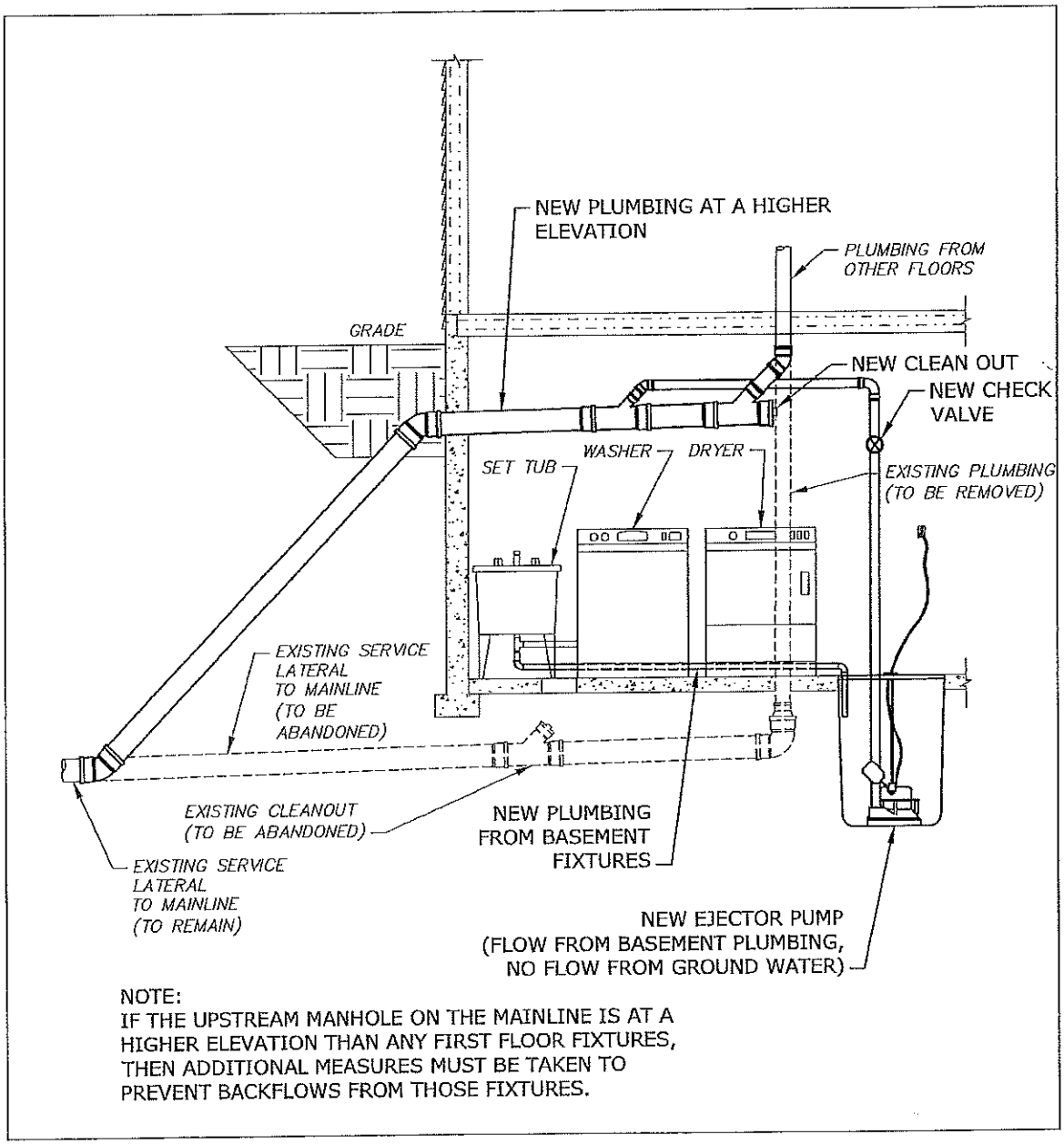
EXAMPLE PLUMBING MODIFICATIONS CONT…

Plumbing Modifications to Raise Elevation of Basement Plumbing



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SEWER BACKUP PREVENTION COST SHARING PROGRAM APPLICATION: FORM A

City of Chicopee Water Pollution Control Facility
80 Medina St, Chicopee, MA 01013
(413) 594-3585

Name: _____

Address: _____

Phone (Home): _____ (Cell): _____

Date you purchased this property (Month & Year): _____

Briefly describe the planned scope of work: _____

_____

	Discharges to*:
Do your downspouts connect underground?	No Yes _____
Does your home have a yard drain?	No Yes _____
Does your home have an exterior perimeter drain/drain tiles?	No Yes _____
Does your home have a sump pump?	No Yes _____

**Work done to separate these sources from the sewer will also be eligible for reimbursement.*

How many backups events have you experienced in this home? _____

Plumber/Contractor Name: _____ Company: _____

Address: _____ Phone: _____

Value of Quote for Work ($): _____

☐MUST SUBMIT PROPOSAL AND DRAWING

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SEWER BACKUP PREVENTION COST SHARING PROGRAM APPLICATION: FORM A (CONTINUED)

----------TO BE COMPLETED BY OTHERS----------

	Name	Date
Eligibility Approval:	_____	_____
Application Approved:	_____	_____
Application Approved As noted:	_____	_____
Comments:	_____	
	_____	
Not Approved:	_____	_____
Reason for non-approval:	_____	_____
Date Returned:	_____	_____

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AGREEMENT: FORM B (CONTINUED)

I understand and agree that the City of Chicopee established the Sewer Backup Prevention Reimbursement Program to assist property owners in protecting their home/business from flooding due to sewer backups. The program provides a cost share of 75% of eligible costs up to a maximum reimbursement of $2,000.

Prior to the installation of any plumbing work, quotes for the proposed work shall be submitted to the City for review and approval. No work shall commence until City's approval is obtained. The City shall be notified to inspect the work once complete.

Reimbursement of eligible items will be made after the work is completed, inspected and approved by the City. A completed "Request for Reimbursement" form must be completed and submitted with a detailed invoice.

Liability- The City shall have no liability for any defective work or other damage, injury and/or loss on account of any act or omission of the Contractor in the performance of the work. The Property owner shall make any claim for such matters directly against the Contractor or Contractor's insurance carrier. The Property owner herby agrees to indemnify and hold City harmless against any and all claims and further covenants not to sue the City for any and all claims, as no system is absolutely fail safe.

Disclaimer-The program is designed to substantially reduce the risk of basement backups. However, there is always some risk of basement backups as a result of unexpected sewer collapse, obstruction, power failure, extreme environmental conditions or other unforeseen factors. All footing drains, storm water tiles, perimeter drains, and other storm or ground water systems must be disconnected from the sanitary system. Storm water/ground water discharges shall be disposed of properly.

Breach- If the Property owner fails to comply with all requirements of this Agreement or to complete installation as provided in this Agreement, the City shall have no obligation to reimburse the Property owner.

I understand and agree with all the above statements and agree to comply accordingly.

_____

Property Owner (Printed Name) Signature Date

_____

Property Address

CITY of
CHICOPEE
Crossroads of New England

APPLICANT'S RESPONSIBILITIES & AGREEMENT

FORM B

The property owner (applicant) accepts responsibility for completing the work, the quality of the work, and maintenance or repairs required. This work is completed by the property owner and is the property owner's responsibility. Backflow preventers and pumps often require regular maintenance to work properly, therefore property owners should familiarize themselves with any products installed.

Please be aware:

- Applicant must use the forms provided.
- Applicant assumes all responsibility for compliance with the program.
- Applicant assumes all responsibility for completion of work.
- Applicant assumes responsibility of all cleaning and maintenance of the installed system.
- Applicant shall not find the City liable for system failures, future claims related to unacceptable workmanship, or any damage resulting from sanitary sewer backups or flooding, or any claims of any nature regarding the work of the contractor.
- Applicant acknowledges that no system is fail proof and any work performed pursuant to the program does not guarantee the elimination of all risk of sanitary sewer backups.
- Applicant acknowledges that participation in the program is voluntary.

----------CONTINUE TO NEXT PAGE----------

CITY of
CHICOPEE
Crossroads of New England

REQUEST FOR REIMBURSEMENT- FORM C

Name: _____

Address: _____

Phone: _____

Date work was completed: _____

Plumbing permit number issued: _____
(attach copy of permit)

Contractor who performed work: _____
(attach copy of Contract Invoice)

Total cost of eligible expenses: _____

Total amount of reimbursement requested: _____
(75% of eligible expenses not to exceed a maximum reimbursement of $2,000)

Owner Certification

I, _____ am the property owner of the premises indicated above and I certify that all the information contained on the Request for Reimbursement Form is true and accurate to the best of my knowledge.

_____ _____
Signature Date

Plumber Contractor Certification

I, _____ of _____ certify that all work completed under this program has been performed in accordance with the Sewer Backup Prevention Reimbursement Program and all applicable City Ordinances and Codes, and 248 CMR 10.

_____ _____
Signature Date

----------CONTINUE TO NEXT PAGE----------

CITY of
CHICOPEE
Crossroads of New England

REQUEST FOR REIMBURSEMENT- FORM C (CONTINUED)

City Certification

As an authorized agent of the City of Chicopee who administers the Sewer Backup Prevention Reimbursement Program, I certify that I have reviewed and received all the necessary paperwork associated with the above mentioned program, and found the Applicant in compliance with the provisions of the Program. Therefore, I recommend the reimbursement amount be paid.

_____ _____

Signature Date

Total Eligible Cost:

Requested Eligible Cost: _____

Approved Eligible Cost: _____

Reimbursement Amount:

Requested Reimbursement: _____

Approved Reimbursement: _____

CITY of
CHICOPEE
Crossroads of New England

EXAMPLE PRODUCT INFORMATION

Check valves used must meet the requirements of the City Ordinances and Codes, and MA Uniform State Plumbing Code (248 CMR 10). The following list provides several check valves that are code compliant. This list is not inclusive and other code compliant check valves will be accepted.

RectorSeal

- SS2009PLUS to SS4009V (Floor Drain)

Watts

- BV-203 to BV-206 (Main line Check Valve)

ISP Corporation

- BWV 4 A and BWV 6P (Main line Check Valve)

Legand Valve

- S-640 and S-641 (Main Check Valve)
- S-660 and S-661(Main Check Valve)

Canplas Industries LTD

- 123281 to 123287(Main Check Valve)

Zurn Industries

- Z1090 (Main Check Valve)

Spears Manufacturing Company

- S275P to S675P (Main Check Valve with removable flapper)
- S1100-07 (Spring Check set tub check)
- S1500C10, S1500C12 (Swing Check set tub check)

ADVANTAGES

- ✓ High water usage and/or water leaks will be brought to your attention quickly and not accumulate over 90 days.
- ✓ You may select to have immediate notification of abnormal water usage.
- ✓ You will not have to be home to get an accurate meter reading and you will not have to mail in a water reading card.
- ✓ Eliminates estimated readings.
- ✓ Provides accurate water usages for all customers.
- ✓ Lowers operational costs to read meters.
- ✓ Usage information data will be transmitted automatically to the DPW four times each day.
- ✓ Customer service representatives will be able to better assist you in understanding your usage trends as they will have detailed information about your water usage. This will help you save water and reduce your water costs.
- ✓ Access the Customer Information Web Portal where you can view details related to your water usage, set usage notification triggers, and view balance information.
- ✓ Provide the City with the ability to transition to monthly billing in the future.

COMMENTS? QUESTIONS? CONCERNS?

We would love to hear from you. Please feel free to contact us by phone, email or mail if you have any questions about the meter program or any other water use question!

Water Department
115 Baskin Drive, Chicopee, MA 01020
413-594-3420, ext. 6

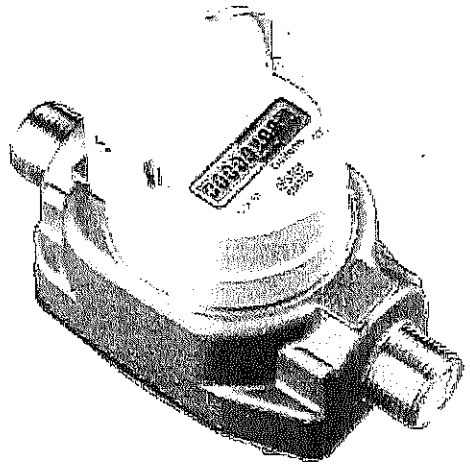
Department of Public Works
115 Baskin Drive, Chicopee, MA 01020
413-594-3566, ext. 2
meters@chicopeema.gov

For more information on our water meter program, please visit the Water Department's webpage at www.chicopeema.gov or contact the Water Department.

CITY *of*
CHICOPEE
Crossroads of New England

DEPARTMENT OF PUBLIC WORKS

Water Meter and Reading System Improvements



WATER METER AND READING SYSTEM IMPROVEMENTS

The City of Chicopee and Chicopee Electric Light are initiating an Advanced Metering Infrastructure (AMI) Project. The City's current metering system is outdated; most of the City's meters are at the end of their service life and the readings are collected via a mix of labor intensive and aged meter reading systems. The new automated meter reading system will install new, accurate water and electric meters that can be read via radio frequencies that send consumption data directly to the City daily. This joint venture allows both utilities to deliver the most efficient, accurate and economical metering system to their customers by working together during the research, bidding and installation processes

Water and sewer bills are based on consumption, and this consumption is measured by your meter, it is important to have a well-functioning meter accurately reading your water usage.

Accurate meter reading data will allow for improved customer service. The data will allow for leak and/or high-use detection and notification, and it will empower the City's customer service staff with information needed to help customers understand their bill, provide recommendations on how to save, and identify what might be the cause of periods with abnormally high bills.

FREQUENTLY ASKED QUESTIONS (FAQS)

How will the meter change out process work?

- City staff need to enter your basement to replace the meter.
- When the City begins work in your area they will notify you.
- You may schedule an appointment or provide access to the Water Department when they knock door-to-door.
- Staff will be in a marked Water Department vehicle, and wear photo identification lanyards.
- Someone 18 or older must be home, and remain home, until the installation is complete.
- Installs will take approximately 30-60 minutes, with a water service interruption of up to 30 minutes.
- Please ensure access to your meter, and 3-feet clear space for work around the meter.
- The program will be completed City-wide, over 7-10 years.

Why is my meter being replaced?

- Most meters are at the end, or past, their service life.
- New meters allow for water reading without a visit to your property
- Hourly usage readings provide you with leak detection and notification.

What is a radio read system?

- Water meter module transmits a very low-power radio frequency to your electric meter which transmits the data to the City.
- Radio transmission is of lower power, and lesser duration than a cordless phone, baby monitor, laptop computer, etc.

FAQS CONTINUED

What information is being transmitted by my water meter?

- Meter usage reading
- Meter identification number
- Meter diagnostics (i.e. no flow detected)

Will I see a change in my service after the new meter is installed?

- Meter readers will not visit your property.
- You will have access to your hourly water usage via an online customer information web portal.

Is my account information secure?

- Yes. Personal customer information is not transmitted
- This system has advanced cyber security provisions.

Do I have to have a new meter?

- Yes, the meter provides the best possible customer service, and billing accuracy!

Will I be charged for the new meter?

- The meter and installation are provided to the property owner at no charge.
- If existing plumbing is in disrepair, the owner may incur a cost associated with fixing the plumbing prior to installation.

Does this mean my bill will be increasing?

- Older water meters under report usage, therefore accurate reporting may yield increased costs.
- Leak detection may reduce your costs.
- Saving water reduces cost for everyone!

City of Chicopee's Water Meter and Reading System Improvements

Overview of the Water Meter and Reading System Improvements

Chicopee Public Works is commencing its meter replacement program with a new wireless meter technology that will improve customer service by capturing electric and water reads in a more efficient manner. The new water meter and reading system improvements will install new, more accurate meters that can be read via radio frequencies that send consumption data directly to the City for billing. This system also has the capability of providing leak detection both within the City's water distribution system and within individual homes and businesses. The new meter technology will increase accuracy, eliminate estimates, and lower operational costs.

Chicopee Electric Light's meter infrastructure is also being upgraded. Therefore, the Public Works Department and Chicopee Electric Light have worked in tandem with one another to find and deliver the most efficient, accurate and economical metering system to their customers. The Department of Public Works' water meters will send water consumption information over the Electric Light's fiber optic network.

Prior to a City-wide implementation of this technology, a pilot program consisting of electric and water meters will be performed in the area of Horseshoe Drive and the Memorial Drive area, between James Street and Pendleton Avenue. Electric and water meters in the pilot area will be changed out as a part of this process starting in Fall 2018.

About the Water Meter Reading System

How does it work?

- Using wireless radio transmitters, customer meters are read remotely. This data is then transferred into the billing system.
- This system will drastically reduce the need for meter readers to manually gather utility meter readings.

Why is the City installing these meters?

- The meter installation is an upgrade to newer technology that will improve our service to you. Most existing meters in Chicopee have reached their end of service life and under report water usage. The new meters will provide a more accurate recording of consumption and a more cost-effective way of transmitting that consumption data to the Department of Public Works. In addition, this program will improve the City's infrastructure and increase our ability to respond to customer inquiries. Meter readers will no longer need to visit each meter to get consumption data, leaks in the water system or in individual homes or businesses will be identified very quickly, power outages will be identified and responded to faster, and overall billing will become more accurate.

What powers the radio transmitter?

- The radio is a battery-powered device. The expected life of the battery is 20 years, which coincides with the expected life of a residential water meter.

Has this new equipment been tested for accuracy and reliability?

- Yes, this equipment has gone through numerous tests for billing accuracy and system reliability.

Do I need to maintain the meters?

- No. The City of Chicopee will handle all ongoing maintenance of the equipment. Do not tamper with the devices. Do not bang on them or attempt to adjust them. Teach children never to touch or play with utility equipment including the meters and radio transmitters. If you think something is wrong with the equipment, *please call the Department of Public Works at 413-594-3557.*

WHAT ARE THE BENEFITS?

- ✓ High water usage and/or water leaks will be brought to your attention quickly and not accumulate over 90 days.
- ✓ You may select to have immediate notification of abnormal water usage.
- ✓ You will not have to be home to get an accurate meter reading and you will not have to mail in a water reading card.
- ✓ Eliminates estimated readings.
- ✓ Provides accurate water usages for all customers.
- ✓ Lowers operational costs to read meters.
- ✓ Usage information data will be transmitted automatically to the DPW four times each day.
- ✓ Customer service representatives will be able to better assist you in understanding your usage trends as they will have detailed information about your water usage. This will help you save water and reduce your water costs.
- ✓ Access the Customer Information Web Portal where you can view details related to your water usage, set usage notification triggers, and view balance information.
- ✓ Provide the City with the ability to transition to monthly billing in the future.

HOW WILL SERVICES BE IMPROVED?

- *Improved* meter reading accuracy
- *Minimized* need to access your property to read your meter
- *Enhanced* customer service by:
    - *Call Resolution Improvement* – billing calls will be handled more quickly due to availability of more frequent meter readings
    - *Leak Detection* – Customers will be notified so leaks can be repaired proactively
    - *Loss Prevention* - We'll have improved ways to detect, and thus prevent, the theft of water and power
    - *Track, Manage, and Control* water and energy use – Customers will have access to up-to date and more detailed consumption information, allowing users to adjust their consumption accordingly

- *Efficient and greener* field services from water, sewer and electric by reducing the number of personnel and trucks in the field

Safety & Security

What information will be transmitted?

- The modules transmit meter readings and the meter identification number. Diagnostic information is also transmitted to verify that the meter is operating correctly.

Is my account information secure?

- Yes, only meter readings and meter numbers are transmitted.
- Personal customer information will not be transmitted.
- The system uses technology that was originally developed by the US military for secure communications to keep your information private and secure.

Will the radio transmitter interfere with my television, cordless phone, garage doors or pacemaker?

- No, the radio transmissions occur on a frequency different from those used by television signals, cordless phones, garage doors, and pacemakers.

Are there any potential health concerns with the radio signals?

- Studies made on low-power RF transmissions have revealed no negative health impacts. The meter transmits for less than a minute each day. The transmissions from the device are comparatively of much lower power, lesser duration, and of farther proximity to customers than typical household devices such as cellular or cordless phones, and televisions. Other common household devices that also use low-power radio signals include wireless internet systems, laptop computers, video game consoles, and baby monitors.

Is there anything hazardous inside the equipment?

- No, only ordinary electronics and batteries are inside the equipment.

Is this radio device a listening device used to listen to conversations in my basement or utility room?

- No. This device transmits encoded water meter register readings.

Meter Replacement & Installation

When will the installations begin taking place?

- Installation of meters as part of the pilot program will begin in Fall 2018. After the pilot program is complete, the City will begin work in small, localized areas. Customers in these areas will receive notification prior to work beginning in their area. The City will travel door-to-door, and door-knock to gain access. If an appointment is needed, the City will leave a door-hanger stating they were in the area, unable to install the water meter and will request the customer call and schedule an appointment.

Can you explain the installation process?

a. Installation of the new meter takes approximately 30-60 minutes in most cases, with your water service being unavailable for up to 30 minutes that time.
b. To ensure that the installation is complete, workers will briefly test the new meter.
c. The installer will clean up the work area to restore to the area original condition.
d. Installers will take a before and after photo of the installation.
e. Before temporarily interrupting individual water services, crews will make every effort to ensure that doing so will not impose an undue hardship on the customer.
f. Before leaving the site, the property owner will be provided information on the status of the visit in the form of a door-hanger receipt. If a property owner is unavailable, the door-hanger will be left on the door. If the door-hanger is exposed to the elements, it will be mailed to the customer. The door-hangers will inform the owner whether the meter was installed, if the meter was unable to be installed and will provide any additional noteworthy comments.
g. Additionally, the installers have been trained to identify lead services. If a lead service is identified during the meter installation process, the City will assist the homeowners in the removal of the lead service and lead piping. The City understands the potential associated risks with lead services and is providing this value-added service as it strives to continue to provide safe, clean water to the City of Chicopee customers.

Do I need to make an appointment to have my meter installed?

- Installations will occur initially based on door-to-door canvassing if the meter installers are in the neighborhood, but only with your approval. If the installation team is unable to gain access when they visit your home, they will leave the blue door hanger with information on how to schedule an appointment. Available appointments will be at 7:30 AM or 12:30PM. Otherwise, appointments are done on a block basis; Installers will arrive between 8 AM and 11:00 AM or 12:30 PM and 3 PM to complete the install.
- The entire meter replacement process takes approximately 30-60 minutes to complete with a water service interruption of up to 30 minutes. Please be advised some installations may take longer due to piping issues, location of meter, etc.

How long will it take for my meter to be installed?

- Once inside your home, each water meter installation will take approximately 30-60 minutes. In some cases, it might be determined by the City that the structural integrity of the pipe at your foundation wall will prohibit the installation of the new water meter. Should this be the case you will be contacted by the City of Chicopee Department of Public Works on what measures will need to be taken in order to install the new water meter.
- Additionally, there may be some trapped air or slight discoloration in the water line that result from the change out. This will clear up after running your water for a few moments. You may hear some noise as the air exits spigots and fixtures. This is normal.

Will workers need to enter my home to install the new meter?

- Yes, two persons from the City of Chicopee Department of Public Works will need to enter your home. Both workers will have proper identification and will arrive in marked vehicles.

Do I need to do anything to my home or business before you install the new water meter?

- Yes. You need to remove anything within a three (3) foot radius of your water meter and reading device. Your water meter is most likely located in your basement or crawl space, usually along the front wall of your house, where your water service enters from the street. Someone over the age of 18 must be home, and remain home, to allow the installers access to the existing meter.
- To help keep everyone safe, dogs and any other domestic pets will need to be secured during installation.

Do I need to be home for the water meter appointment?

- Yes, or someone 18 or over needs to be home and remain home during the installation process. We cannot enter anyone's home without someone being home. If the installers have been in your area and were unable to changeout your meter, please call the number provided on the blue door-hanger to schedule an appointment. Please do not call until you receive a blue door-hanger notice.

When are appointments normally scheduled?

- If an appointment is needed, appointments are usually scheduled during the hours of 7:30 AM and 2:30 PM Monday through Friday for water meter replacements. Otherwise, appointments are done on a block basis where installers will arrive between 8 AM and 11:00 AM or 12:30 PM and 3 PM to complete the install. If customers are unavailable between those hours, some appointments for after-hours and weekends are available.
- Please note that you cannot schedule your appointment until you receive written notification to make the appointment – this notification will be a blue door-hanger.
- Initially, installations will occur based on door-to-door canvassing if the meter installers are in the neighborhood, but only with your approval.

How long will it take to complete the project?

- The project is scheduled to be completed over 7 to 10 years.

What if I have not received notification to make an appointment?

- The City will track the installation of all meters and will insure your meter is replaced during the changeout process. However, the changeout process will take approximately ten years, therefore your meter may not be replaced for quite some time.

How do I know that the people who come to my house are representing the City as part of this project?

- All City personnel assigned to the project will have a conspicuously displayed picture identification badge.
- All vehicles used by these individuals will also be marked City vehicles.

- Employees without proper identification will not be allowed to work.
- The Chicopee Police Department will also be notified of where the work is taking place prior to installers entering a neighborhood.
- If you ever have any question about the identity of someone who claims to be working on behalf of the City of Chicopee, please call the City of Chicopee Department of Public Works at 413-594-3557 or the Police Department's non-emergency number, 413-594-1700

Will my water service be interrupted?

- Yes, service interruptions will generally last less than a half hour.

Other Frequently Asked Questions (FAQs)

Why is the City installing new water meters?

- Many of the City's existing water meters have been in service past their useful life. Failed meters result in estimated water usage or under reported water usage. The older meters are not compatible with current meter reading systems. The new meters will transmit the water meter reading directly to the DPW and accurately report your consumption every day.

Is this new system really needed?

- Yes. We strive to provide the best possible customer service, high reliability and billing accuracy. The new technology will help us achieve these goals. As water meters get older they become less accurate and need to be replaced.

Does this mean my bill will be increasing?

- Not necessarily. In some cases, your bill may increase, but only if your current meter is underreporting usage. Presently residents with newer meters are paying for the water they are actually using, while a few residents with older meters are only paying for a fraction of the water. This condition is not fair to all residents. The new system will ensure fairness and equality for all the residents and businesses from this point forward.

Will I be charged for the new meter?

- The meter and installation are provided to the property owner at no charge. If existing plumbing is in disrepair, the owner may incur a cost associated with fixing the plumbing prior to installation.

Will I see a change in my service after the meters are installed?

- The only significant change to your utility service will be that once the system is operating, meter readers will not need to visit your property to collect the meter readings. Service personnel may visit the meter periodically to confirm proper operation or perform routine maintenance. Additionally, through the web portal, customers and customer service staff will have presentations of hourly water usage that will help customers understand their use better and identify how to control costs.

Doesn't the upgrade work require a licensed plumber?

- In some rare instances where modifications to the existing plumbing are needed to change out the water meter, a licensed plumber will be required.

Isn't my water meter on the outside of the home?

- No, water meters are located within the homes to prevent freezing in the winter months. Some homes may be equipped with an outdoor reading device. Installers will be replacing the water meter inside your home and installing a new radio device.

Is this something I have to do?

- Yes, this is a mandatory meter replacement/upgrade. The City of Chicopee requires that all utility customers receive new meters. Customers may option not to have radio reach technology, but those who chose to not have radio read technology will be billed a monthly water usage read fee. Customers with radio read technology will not be billed this opt out fee.

My meter has received the new technology upgrade. Why is a meter reader still taking readings from my meter?

- If you received a new meter after September 2018 your meter is still being read manually it just indicates that we have not completed the network in your area, and we are not yet ready to read your meter remotely. Once we are receiving radio readings from your meter, future readings will be collected remotely by the network.
- A City employee may also need to revisit the meter to perform troubleshooting tasks if any read errors appear.

I just got a new meter. Why is a meter reader still taking readings from my meter?

- If you received a new meter prior to September 2018, the new radio read capability still needs to be installed.

How do you know that my reading is accurate?

- This "state-of-the-art" meter reading technology uses electronic registers to collect the meter readings and a radio to send the data that have proven to be more accurate than visually reading the meter by removing the possibility for human errors. Also, each radio device has a unique identification number that is transmitted along with the meter reading. The unique identification number is compared electronically to your account record to ensure that the meter reading received matches the meter assigned to your account.

What will happen to my old water meter and electric meter?

- Your old meters will be taken and stored for 6 months and then recycled. This is done should there be any disagreements regarding prior water or electricity consumption.

After installation of the radio read meter, will a Meter Reader still need access to the property to read my meter? Will I still have to a read my meter myself and report it to City Hall?

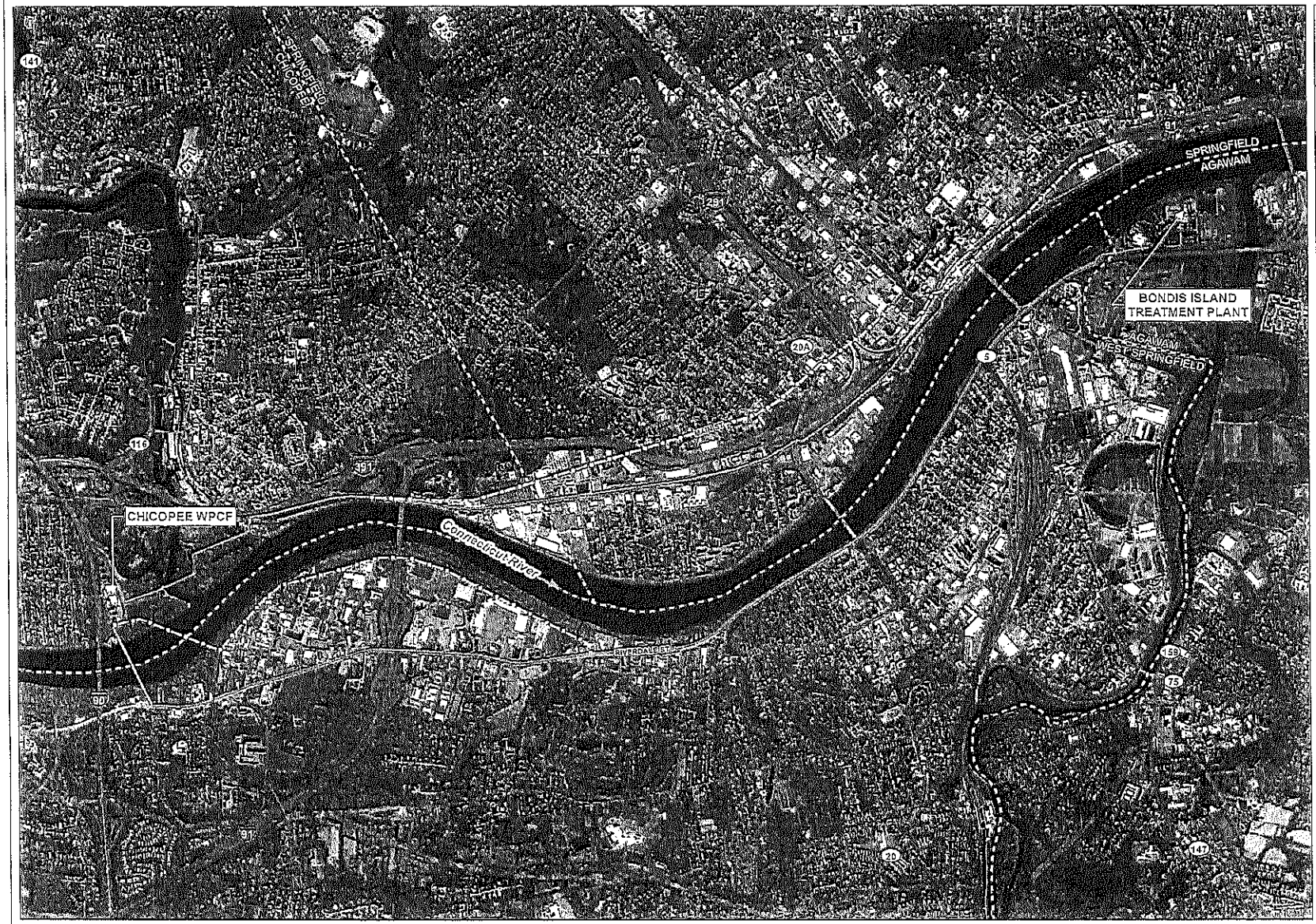
- No. The new water meter reading system is automatic and can be read without residents having to report their usage.

Will the meter interfere with my other household appliances such as computer routers, television signal, cordless phones, etc.?

- The meter and transmitter will not adversely affect the stability or performance of home wireless networks.

What if I have more questions about the meter replacement program implementation?

- You can contact the Chicopee Water Department at 413-594-3420 or Department of Public Works at 413-594-3557 Monday through Friday from 8:00 AM to 5:00 PM. You can also email meters@chicopeema.gov for more information.

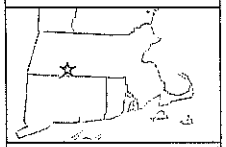


CHICOPEE SEWER

LEGEND

- Springfield Route
- Springfield Route Alternative
- W.Springfield Route
- W.Springfield Route Alternative
- City Boundary

LOCUS MAP



0 1,000 2,000
Feet
1 inch equals 2,000 feet

NOTES

1. Imagery © Google 2016

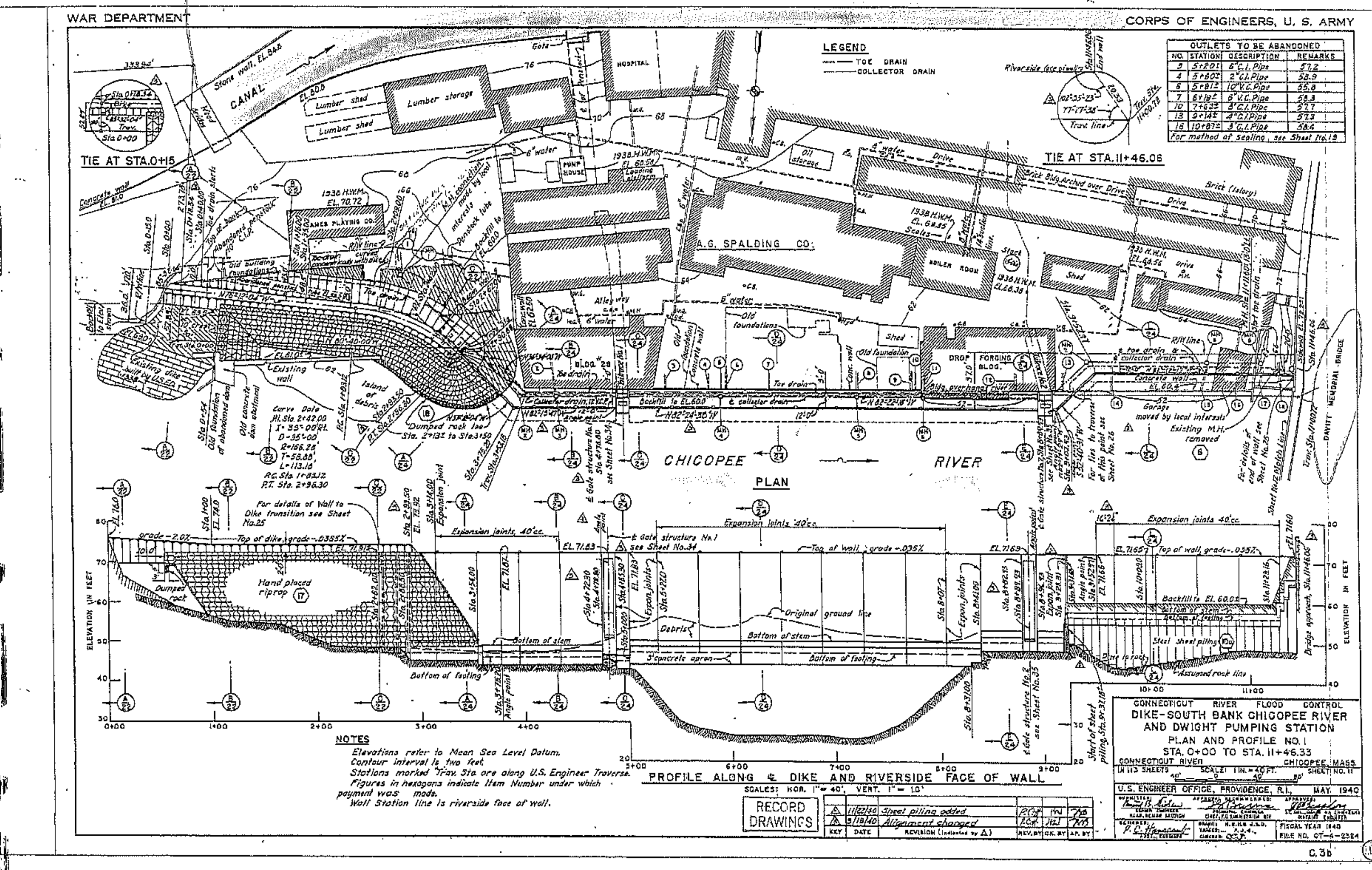
Feasibility Study
Sewer Connections
Chicopee WPCF to
Bondis Island Treatment Plant
Chicopee, Massachusetts

December 2016

Tighe&Bond
Engineers | Environmental Specialists

V:\Projects\C\C0468\Sewer Interconnection to SWSC\ProposedSewerInterconnections.mxd

C-0468


WAR DEPARTMENT
CORPS OF ENGINEERS, U. S. ARMY
TIE AT STA. 0+15
TIE AT STA. 11+46.06
LEGEND
TOE DRAIN
COLLECTOR DRAIN
OUTLETS TO BE ABANDONED
NO. | STATION | DESCRIPTION | REMARKS
3 | 5+20± | 6" C.I. Pipe | 57.2
4 | 5+60± | 2" C.I. Pipe | 58.9
6 | 5+81± | 10" V.C. Pipe | 55.8
7 | 6+19± | 6" V.C. Pipe | 58.3
10 | 7+63± | 3" C.I. Pipe | 57.7
13 | 9+14± | 4" C.I. Pipe | 57.3
16 | 10+87± | 3" C.I. Pipe | 58.4
For method of sealing, see Sheet No. 19
CANAL
Stone wall, EL. 84.8
Lumber shed
Lumber storage
HOSPITAL
PUMP HOUSE
AMES PLATING CO.
A.G. SPALDING CO.
BOILER ROOM
DROP FORGING BLDG.
Oil storage
Shed
Drive
Brick (1 story)
Brick Bldg. Arched over Drive
1938 H.W.M. EL. 70.72
1938 H.W.M. EL. 68.56
1938 H.W.M. EL. 64.85
1938 H.W.M. EL. 64.56
1938 H.W.M. EL. 68.38
Existing dike built by U.S.E.D.
Old foundation of abandoned dam
Old concrete dam abutment
Existing wall
Island of debris
Dumped rock toe
Curve Data
P.I. Sta. 2+42.00
I = 35°-00' Rt.
D = 35°-00'
R = 166.28'
T = 58.88'
L = 113.16'
P.C. Sta. 1+83.12
P.T. Sta. 2+96.30
CHICOPEE RIVER
PLAN
DAVITT MEMORIAL BRIDGE
Garage moved by local interests
Existing M.H. removed
For ties to traverse at this point see Sheet No. 26
For details of end of wall see Sheet No. 25
Sheet No. 12 Match Line
℄ Gate structure No. 1 Sta. 4+78.80 see Sheet No. 34
℄ Gate structure No. 2 see Sheet No. 35
For details of Wall to Dike transition see Sheet No. 25
Hand placed riprap
Dumped rock
Top of dike, grade -.0355%
Top of wall, grade -.035%
Expansion joints 40' c.c.
Original ground line
Bottom of stem
Bottom of footing
3' concrete apron
Debris
Steel sheet piling
Assumed rock line
Backfill to EL. 60.0
Bridge approach, Sta. 11+46.06
Start of sheet piling, Sta. 9+31.18
ELEVATION IN FEET
NOTES
Elevations refer to Mean Sea Level Datum.
Contour interval is two feet.
Stations marked Trav. Sta. are along U.S. Engineer Traverse.
Figures in hexagons indicate Item Number under which payment was made.
Wall Station line is riverside face of wall.
PROFILE ALONG ℄ DIKE AND RIVERSIDE FACE OF WALL
SCALES: HOR. 1" = 40', VERT. 1" = 10'
RECORD DRAWINGS
11/22/40 Sheet piling added
5/18/40 Alignment changed
KEY | DATE | REVISION (indicated by △) | REV. BY | CK. BY | AP. BY
CONNECTICUT RIVER FLOOD CONTROL
DIKE-SOUTH BANK CHICOPEE RIVER
AND DWIGHT PUMPING STATION
PLAN AND PROFILE NO. 1
STA. 0+00 TO STA. 11+46.33
CONNECTICUT RIVER CHICOPEE, MASS.
IN 113 SHEETS SCALE: 1 IN. = 40 FT. SHEET NO. 11
U.S. ENGINEER OFFICE, PROVIDENCE, R.I. MAY 1940
FISCAL YEAR 1940
FILE NO. CT-4-2324
C.3b

CITY OF CHICOPEE

DEPARTMENT OF PUBLIC WORKS

115 BASKIN DRIVE, CHICOPEE, MASSACHUSETTS 01020
Tel (413) 594-3557 Fax (413) 594-3569

Elizabette Botelho
Acting DPW Superintendent

MEMO

To: Richard J. Kos, Mayor
From: Elizabette F. Botelho
Date: January 23, 2019
Re: Sanitation/Recycling Vehicle Garage

As you are aware, DPW staff met with the Finance Committee of the City Council on September 24, 2018 to review the appropriation request for the design and bidding of an 8-bay vehicle garage for sanitation/recycling side loaders. After much discussion, the funding request was tabled and a request was made to estimate the cost of a 12-bay garage.

From previous research, we know that any garage over 5000 square feet in area will require fire suppression. Therefore, we took the extra step of estimating the cost to build two separate 6-bay garages, in addition to the request to estimate the cost of a 12-bay garage:

Option #1 – Build two 6-bay garages; no fire suppression needed
Option #2 – Build one 12-bay garage with fire suppression

The preliminary total estimated costs for each option are as follows:
Option #1 ..... $1,387,300
Option #2 ..... $1,453,475
*Note-Detail for each of these estimates is attached. Option #1 estimate was done in-house; Option #2 estimate from Caolo & Bieniek; Also attached is the original estimate for the 8-bay proposal of $999,500, also by Caolo & Bieniek.

As reviewed with the Finance Committee, there are currently 3 truck bays available in the CMG building for 3 side-loaders. Therefore, the minimum requirement for garage space would be an additional 8 truck bays. Certainly, any added vehicle storage space would allow some rear-load packers to be kept inside and extend their vehicle life.

Thank you for your consideration of this information. We look forward to the opportunity to discuss this further with you and the City Council.

Elizabette F. Botelho P.E.
Acting DPW Superintendent

CC: Stan Kulig, DPW Project Advisor

CURTIS A. EDGIN, AIA, NCARB
JAMES M. HANIFAN, AIA, NCARB
BERTRAM W. GARDINER IV, AIA, NCARB
JOHN D. MACMILLAN, AIA, LEED AP

CAOLO & BIENIEK ASSOCIATES, INC.

ARCHITECTURE • PLANNING • INTERIOR DESIGN

CHICOPEE DPW TRUCK GARAGE

7/26/18

- 42' X 118' = 4,950 sq. ft.
- 8 Overhead Doors
- Heat & Ventilation
- Electrical = lights / power / fire alarm
- Site = storm / excavation / MDC trap
- Paving By City
- No Borings / Geotech included
- Anticipated construction midpoint of summer 2019

Construction Costs

Pre-Engineered Building ($100 sq. ft.)	$495,000.00
HVAC ($18 sq. ft.)	89,100.00
Electric & Fire Alarm ($22 sq. ft.)	109,000.00
Site	125,000.00
	$818,100.00

Soft Costs

A/E Fees (11.3%)	$92,400.00
Survey	3,500.00
Advertise / Printing	2,000.00
Construction Testing	2,500.00
Sub Total	$100,400.00

Design & Construction Contingency (10%) = $81,000.00

Total Project Cost Estimate	$999,500.00

521 East Street • Chicopee, Massachusetts 01020-4176 • (413) 594-2800 • Fax (413) 594-2900 • info@cbaarchitects.net

CITY OF CHICOPEE

DEPARTMENT OF PUBLIC WORKS

115 BASKIN DRIVE, CHICOPEE, MASSACHUSETTS 01020
Tel (413) 594-3557 Fax (413) 594-3569

Elizabette Botelho
Acting DPW Superintendent

Preliminary Cost Estimate
Option #1 – Build two(2) 6-bay Vehicle Garages (approx. 3,500sf each)

**Note: Prices based on engineering estimate provided for 8-bay garage. There is no 'economy of scale' shown in construction cost estimate since two separate facilities are being built. Some economies shown for soft costs.

Construction Costs (first garage)

--Pre-Engineered Garage ($100/sf)	$350,000.00
--HVAC ($18/sf)	63,000.00
--Electric and Fire Alarm	77,000.00
--Site ($25/sf)	87,500.00
	$577,500.00

Soft Costs (first garage)

--A/E Fees	$65,300.00
--Survey	3,500.00
--Advertise/Printing	2,000.00
--Engineered Soils	10,000.00
--Construction testing	2,500.00
	$83,300.00

Design and Construction Contingency (10%)	$58,000.00
Total Preliminary Estimate—First 6-Bay Garage	$718,800.00

Second 6-Bay Garage

--Construction Cost	$577,500.00
--Added A/E	33,000.00
--Contingency	58,000.00
--Survey, Ad/Print, Soils, Testing(one-time costs)	0.00
Total Preliminary Estimate – Second 6-Bay Garage	$668,500.00
TOTAL ESTIMATE – OPTION #1 (Two 6-bay Garages)	$1,387,300.00

CHICOPEE DPW TRUCK GARAGE

10/11/18

- 42' X 182' = 7,525 sq. ft. (12 bays at 14'-8" w x 43' d, plus 100 sq. ft. for a separate sprinkler room)
- 12 Overhead Doors
- Heat & Ventilation
- Electrical = lights / power / fire alarm
- Site = storm / excavation / MDC trap
- Fire Protection/Sprinkler system with new water service
- **Paving By City**
- No Borings / Geotech included
- Anticipated construction midpoint of summer 2019

Construction Costs

– Pre-Engineered Building ($100 sq. ft.)	$752,500.00
– HVAC ($16 sq. ft.)	120,400.00
– Electric & Fire Alarm ($18 sq. ft.)	135,450.00
– Fire Protection ($5 sq. ft.)	37,625.00
– Engineered soil	10,000.00
– Site (Water, Electrical and Gas Services)	150,000.00
	$1,205,975.00

Soft Costs

A/E Fees (10%)	$120,000.00	
Survey	3,500.00	
Advertise / Printing	2,000.00	
Construction Testing	2,500.00	
Sub Total		$127,500.00

Design & Construction Contingency (10%+/-) = $120,000.00

Total Project Cost Estimate	1,453,475.00

CITY OF CHICOPEE, MASSACHUSETTS

OPEN POSITIONS As of January 18, 2019

Apply online at www.chicopeema.gov, Employment Opportunities`

City Clerk's
- 2019-005 Principal Clerk

City Messenger/Maintenance
- 2018-077 Jr. Building Custodian (FT at Safety Complex)
- 2019-004 Jr. Building Custodian (PT at COA)

Chicopee Electric Light
- 2019-006 Telecommunications Field Manager

Council on Aging
- 2018-010 Outreach Coordinator

DPW-Admin
- 2018-048 DPW Superintendent

DPW-Highway
- 2018-074 Highway Maintenance Man (5 positions)

DPW-Parks & Recreation
- 2017-096 Superintendent Of Parks & Recreation and Cemeteries

DPW - Water Department
- 2017-100 Superintendent of Water Department
- 2018-019 Water System Maintenance Man *(1 position)*

DPW - Water Pollution Control
- 2018-051 Senior Pump Station Operator
- 2018-034 Repair Worker
- 2019-002 Mechanic/Electrician

Human Resources
- 2018-082 Human Resources Generalist
- 2019-003 Director of Human Resources

Library
- 2018-086 Assistant Director
- 2019-001 Administrative Manager

MIS (IT)
- 2018-065 Director of MIS (IT) – pending start date March 4, 2019